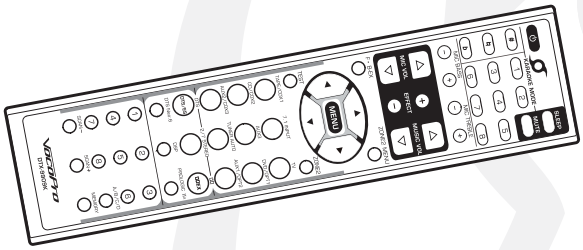
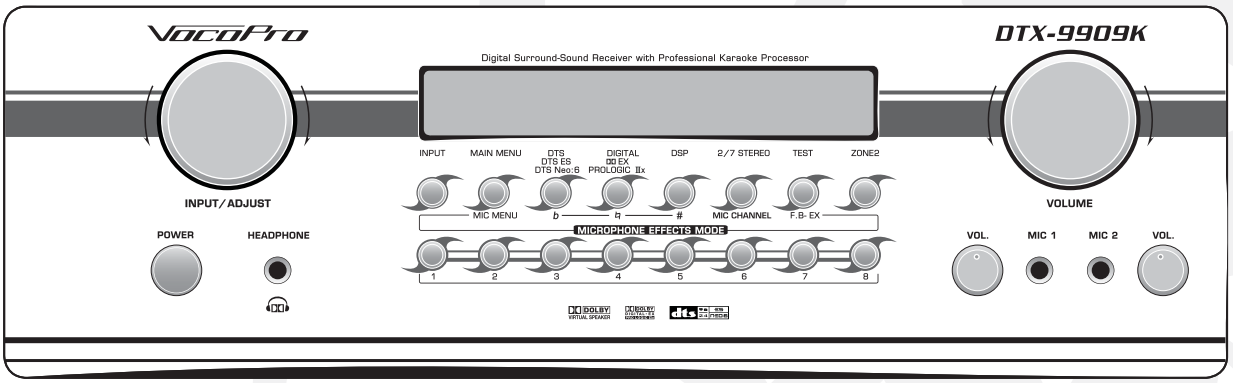
VocoPro®

THE SINGER'S ULTIMATE CHOICE™





DTX-9909K

700W MAX 7.1 Surround Sound Receiver with Professional Karaoke DSP Processing

owner's manual

Table of Contents

FCC Information.....4
Listening for a Lifetime 5
Safety Instructions 6
Welcome.....7
Features 8
Technical Specs.....9-10
Getting Started 11
Getting Connected
- Speakers.....12
- Inputs 15
- Microphones.....22
- Headphones.....22

Descriptions and Functions
- Front Panel.....23-25
- Rear Panel 26-29
- Remote Control.....30-32
- LED Display.....33

Basic Functions.....34
AM/FM Tuner Operations.....35-36
Speaker Settings Menu.....37-39
Karaoke Mode 40-42
Reference
- Surround Sound Setup.....43
- Playback Modes 44
- Listening Modes.....44

Troubleshooting.....45-46
Resetting the DTX-9909K.....47
Index.....48-49

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!: This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Vocopro may void your authority, granted by the FCC, to use this product.

2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable(s) supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the U.S.A.

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurances that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the owner's manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "Off" and "On", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300-ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact your local retailer authorized to distribute Vocopro products. If you can not locate the appropriate retailer, please contact Vocopro, 1728 Curtiss Court, La Verne, CA 91750.

CAUTION
The apparatus is not disconnected from the AC power source so long as it is connected to the wall outlet, even if the apparatus itself is turned off. To fully insure that the apparatus is indeed fully void if residual power, leave unit disconnected from the AC outlet for at least fifteen seconds.

CAUTION:
READ THIS BEFORE OPERATING YOUR UNIT

1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

2. Install your unit in a cool, dry, clean place - away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, v motors). To prevent fire or electrical shock, do not expose to rain and water.

3. Do not operate the unit upside-down.

4. Never open the cabinet. If a foreign object drops into the set, contact your dealer.

5. Place the unit in a location with adequate air circulation. Do not interfere with its proper ventilation; this will cause the internal temperature to rise and may result in a failure.

6. Do not use force on switches, knobs or cords. When moving the unit, first turn the unit off. Then gently disconnect the power plug and the cords connecting to other equipment. Never pull the cord itself.

7. Do not attempt to clean the unit with chemical solvents: this might damage the finish. Use a clean, dry cloth.

8. Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.

9. This unit consumes a fair amount of power even when the power switch is turned off. We recommend that you unplug the power cord from the wall outlet if the unit is not going to be used for a long time. This will save electricity and help prevent fire hazards. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

10. To prevent lightning damage, pull out the power cord and remove the antenna cable during an electrical storm.

11. The general digital signals may interfere with other equipment such as tuners or receivers. Move the system farther away from such equipment if interference is observed.

NOTE:
Please check the copyright laws in your country before recording from records, compact discs, radio, etc. Recording of copyrighted material may infringe copyright laws.

Listening for a lifetime

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. VocoPro and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to a higher volume of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
- Set the dial and leave it there.
- Pay attention to the different levels in various recordings.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Some common decibel ranges:

Level	Example
30	Quiet library, Soft whispers
40	Living room, Refrigerator, Bedroom away from traffic
50	Light traffic, Normal Conversation
60	Air Conditioner at 20 ft., Sewing machine
70	Vacuum cleaner, Hair dryer, Noisy Restaurant
80	Average city traffic, Garbage disposals, Alarm clock at 2 ft.

The following noises can be dangerous under constant exposure:

Level	Example
90	Subway, Motorcycle, Truck traffic, Lawn Mower
100	Garbage truck, Chainsaw, Pneumatics drill
120	Rock band concert in front of speakers
140	Gunshot blast, Jet plane
180	Rocket launching pad

-Information courtesy of the Deafness Research Foundation

Safety Instructions

CAUTION
RISK OF SHOCK

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Only refer servicing to qualified service personnel.

Explanation of Graphical Symbols

The lightning flash & arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of danger.

The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

WARNING
To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions - The safety and operating instructions should be retained for future reference.

3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions - All operating and use instructions should be followed.

5. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

6. Water and Moisture - Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

7. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

7 A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause an overturn.

8. Ventilation - The appliance should be situated so its location does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation slots.

9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. Grounding or Polarization – Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

12. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. Cleaning – Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

14. Power lines – An outdoor antenna should be located away from power lines.

15. Nonuse Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

16. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

17. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:

A. The power supply cord or plug has been damaged; or
B. Objects have fallen into the appliance; or
C. The appliance has been exposed to rain; or
D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
E. The appliance has been dropped, or the enclosure damaged.

18. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note:
To CATV system installer's (U.S.A.): This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.

Welcome

And thank you for purchasing the **DTX-9909K** from VocoPro, your ultimate choice in Karaoke entertainment! With years of experience in the music entertainment business, VocoPro is a leading manufacturer of Karaoke equipment, and has been providing patrons of bars, churches, schools, clubs and individual consumers the opportunity to sound like a star with full-scale club models, in-home systems and mobile units. All our products offer solid performance and sound reliability, and to reinforce our commitment to customer satisfaction, we have customer service and technical support professionals ready to assist you with your needs. We have provided some contact information for you below.

VocoPro

1728 Curtiss Court
La Verne, CA 91750
Toll Free: 800-678-5348
TEL: 909-593-8893
FAX: 909-593-8890

VocoPro Company Email Directory

Customer Service & General Information
info@vocopro.com

Tech Support
techsupport@vocopro.com

Remember Our Website
Be sure to visit the VocoPro website **www.vocopro.com** for the latest information on new products, packages and promos. And while you're there don't forget to check out our Club VocoPro for Karaoke news and events, chat rooms, club directories and even a KJ Service directory!

We look forward to hearing you sound like a PRO, with VocoPro, the singer's ultimate choice.

FOR YOUR RECORDS

Please record the model number and serial number below, for easy reference, in case of loss or theft. These numbers are located on the rear panel of the unit. Space is also provided for other relevant information

Model Number _____

Serial Number _____

Date of Purchase _____

Place of Purchase _____

Features

Features

- 7.1 Dolby Digital Surround EX Decoder
- DSP Vocal Reverb
- DSP Feedback Reducer
- 7 Input Channels (5 audio/video, 2 audio-only)
- Treble and Bass Tone Controls
- Digital AM/FM Tuner with 64 Station Presets
- Full-function Remote Control
- Automatic Audio Format Recognition
- Remote Control Standby
- Sleep Timer
- Headphone Jack and Speaker Bypass
- Dolby Digital Decoder
- DTS Decoder
- 7-Channel Stereo Mode
- 2-Channel Stereo Bypass Mode
- 7 DSP modes: Church, Disco, Hall, Jazz, Live, Stadium, and Theater

Connections

Audio Inputs
- 7 Stereo L/R RCA
- 3 Digital Coaxial
- 2 Digital Optical

Video Inputs
- 5 RCA Video
- 5 S-Video
- 3 Component Video (YPbPr)

Audio Outputs
- L/R RCA Pre
- L/R RCA Record
- RCA Subwoofer

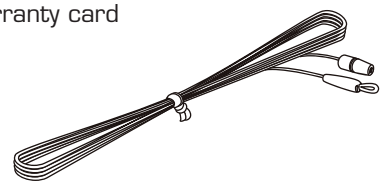
Speaker Outputs
- L/R 'Banana Plug' Front Speaker
- Center 'Banana Plug' Speaker
- L/R 'Banana Plug' Surround
- L/R 'Banana Plug' Surround Back

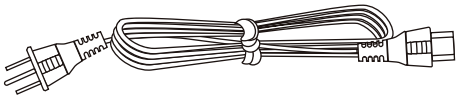
Video Outputs
- 1 RCA Video
- 1 S-Video
- 1 Component (YPbPr)

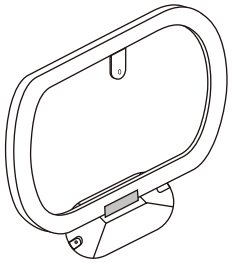
Radio Tuner
- FM Antenna Output
- AM Antenna Output

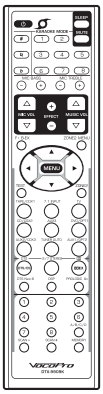
Contents

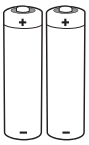
- (1) Power cable
- (1) Remote control
- (2) AA battery
- (1) Indoor FM antenna
- (1) AM loop antenna
- (1) Warranty card

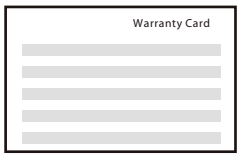












Technical Specifications

NO	Test item	Test condition	Unit	Technology requirement
1	Input Sensitivity	Input 1KHz signal, output 8Ω load，distortion＝1%	mV	L/R/C/SL/SR/SBL/SBR=200～250
2	Overload electromotive force	Input 1KHz signal, output 8Ω load，distortion＝1%	V	≥2
3	Output V/ W of distortion limit	Input 1KHz signal, output 8Ω load，distortion＝1%	V	≥28
4	CH gain	Input 1KHz signal, output 8Ω load	dB	≤1
5	Frequency response	Input 1KHz signal, output 8Ω load 1W，all the tune at middle point for reference，test frequency range: 20Hz～20Khz,	dB	≤1
6	CH separated ratio	Separated input 1KHz and 10KHz signal, Output 8Ω load	dB	1K≥55、 10K≥50
7	DVD/VIDEO CH cross talk	Separated input 1KHz and 10KHz signal, output 8Ω load	dB	1K≥65、 10K≥55
8	Tone range	Input 1KHz signal, Output 8Ω load 1W，all the tune at middle point for reference，Test frequency range: 100Hz～10Khz, test at 100Hz and 10KHz	dB	±8(±2)
19	Damp coefficient	Under Working condition,，8Ω mono work，100Hz		＞100
20	S/N	Rating output as parameter	dB	S/N≥75， A weight≥82
21	excess noise	No signal input,，Use 600Ω resistance short circuit input，OUT 8Ω	mV	≤3
22	Mic input sensitivity	Input 1KHz signal, Output 8Ω load，distortion＝1%	mV	＝15±5
23	MIC Overload electromotive force	Input 1KHz signal, Output 8Ω load，distortion＝1%	mV	≥250
24	Tone range	Input 1KHz signal, Output 8Ω load1W，all the tune at middle point for reference ,test at 100Hz and 10KHz	dB	±10(±2)
25	MIC Frequency response	Input 1KHz signal, Output 8Ω load 1W， all the tune at middle point for reference, test frequency range: 30Hz～10Khz	dB	≤1
26	MIC（S/N）	Rating output as reference value	dB	S/N≥60 ，A weight≥65
27	Excess noise	OUT 8Ω No signal input, short circuit input	mV	≤15
32	SW input sensitivity	Input 100Hz signal, distortion＝1%，7.1 Input	mV	≤360
33	SW linear input Overload electromotive force	Input frequency 100Hz，7.1 Input	V	≥3.5
34	SW linear Max output voltage	Input 100Hz signal, distortion＝1%，7.1 Input	V	≥3
35	Headphone max output	Input 1KHz signal, Output 32Ω load，distortion＝1%	V	≥1
36	REC Max output without distortion	Input 1KHz signal, Output 10K load，distortion＝1%	V	≥1.5
37	Video frequency test	Input 6.5MHz/1Vpp, Output 75Ω load	mV	Output＝900～950mVpp

39	AM	26dB limit noise sensitivity				Specification		
						MIN	TYP	MAX
				603KHz	dBu	—	60	74
				999KHz		—	56	72
				1404KHz		—	56	72

Technical Specifications cont.

		Signal to noise ratio (A weight)	80% mod		999KHz	dB	40	50	—
		Distortion rate	80% mod		999KHz	%	—	1.0	5.0
		Audio output	L/R output		999KHz	mV	125	180	260
		intermediate frequency restrain ratio			999KHz	dB	30	45	—
		Audio frequency characteristic	Ref：1KHz	40Hz	999KHz	dB	—	-10	—
				4KHz			-16	-10	—
		Frequency range				KHz	522～1611		
40	FM	50dB limit noise sensitivity	15KHz LPF ON		88.0MHz	dBu	—	20	26
					98.0MHz		—	20	26
					106.0MHz		—	20	26
		Signal noise ratio	15KHz LPF ON		98.0MHz	dB	50	60	—
					98.0MHz		50	60	—
		Distortion	15KHz LPF ON		98.0MHz	%	—	0.4	1.2
					98.0MHz		—	0.7	1.5
		Audio output	15KHz LPF ON		98.0MHz	mV	650	800	900
					98.0MHz		550	700	800
		Stereo separate ratio	15KHz LPF ON		98.0MHz	dB	23	30	—
		Frequency range				MHz	87.50～108.00		

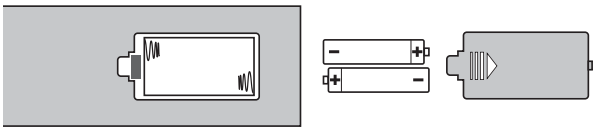
Getting Started

About the Remote Control

- The area between the remote control and the main unit must be clear of large obstacles.
- Do not expose the remote control sensor to strong lighting, especially an inverter type fluorescent lamp as this may cause the remote control to not function properly.

Installing Batteries in the Remote Control

1. Turn the remote control over and slide the battery compartment cover off towards the direction of the arrow.
2. Insert the AA batteries, positioning them according to the polarity (+, –) markings on the inside of the battery compartment.
3. Close the battery compartment cover.



Battery Replacement

If you find that the distance between the remote control and the main unit must be shorter in order to use the remote control, this means that the batteries are low and must be changed. Replace both batteries with new ones.

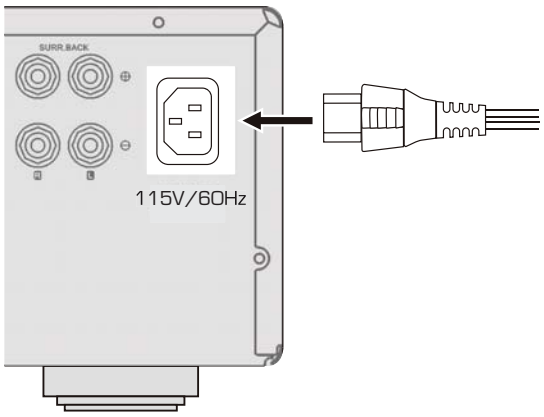
Battery Notes:

- Use AA batteries.
- Be sure the polarities (+, –) are correct. (See the illustration inside the battery compartment).
- Remove the batteries when not using the remote control for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid skin, clothing and any other contact with the leaked material. Clean the battery compartment thoroughly before installing new batteries.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) with rechargeable (nickel-cadmium) batteries.

Connecting the Power Cable

Plug the supplied AC power cable into the AC inlet after all other connections are complete and then plug the AC power cable to an AC wall outlet.

CAUTION
Use the supplied AC cable. Do not use other AC power cables as doing so may result in fire hazard or electrical shock.

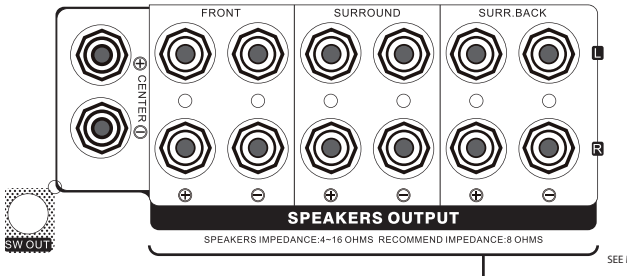


Getting Connected

Connecting Speakers

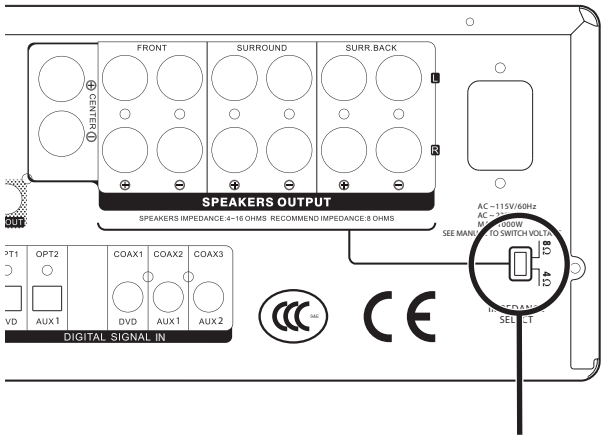
The Speaker Terminals are located on the rear panel. There are two FRONT terminals, one CENTER terminal, Two SURROUND terminals and two SURR BACK (surround back) terminals. Be sure to connect the left channel (L), right channel (R), "+" (red) and "–" (black) properly.

DTX-9909K rear panel



Caution

- If using 4Ω speakers, be sure to set the DTX-9909K's speaker impedance setting to 4Ω before using. If using 8Ω speakers, make sure it is set to 8Ω . The speaker impedance switch is located on the rear panel.



Impedance Switch

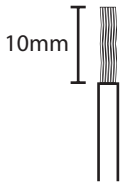
- Before connecting the speakers, make sure that the DTX-9909K is disconnected from the power source.
- Do not let the bare speaker wires touch each other or another metal part of this unit. This could damage the DTX-9909K and/or the speakers.

Preparing the Speaker Cable

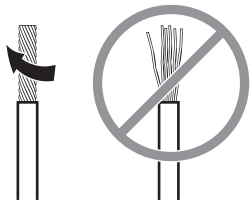
You can either used an exposed speaker wire or Banana Plug speaker cable.

Exposed Speaker Wire

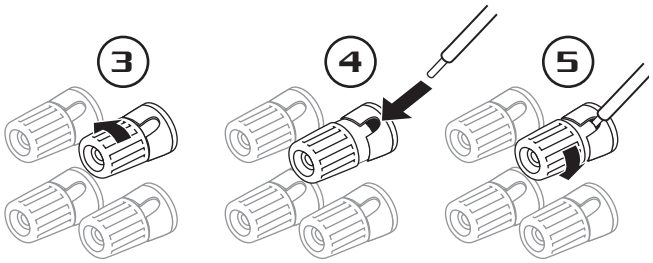
1. Remove approximately 3/8" (10mm) of insulation



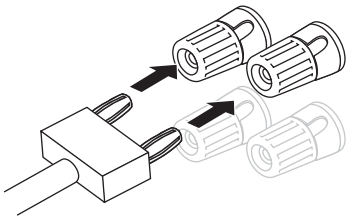
2. Twist the exposed wires together to prevent short circuits



3. Loosen the knob on the speaker terminal
4. Insert the bare wire
5. Tighten the knob until the wire is secure



Banana Connector

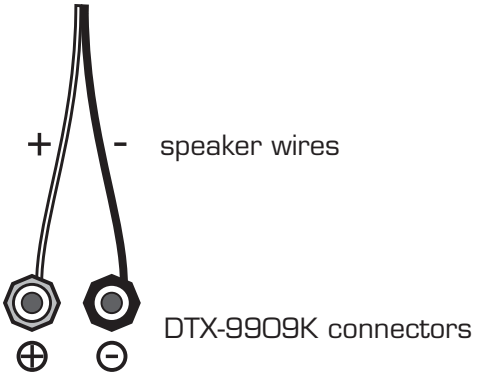


Getting Connected cont.

Determining the proper way to connect the speaker cables:

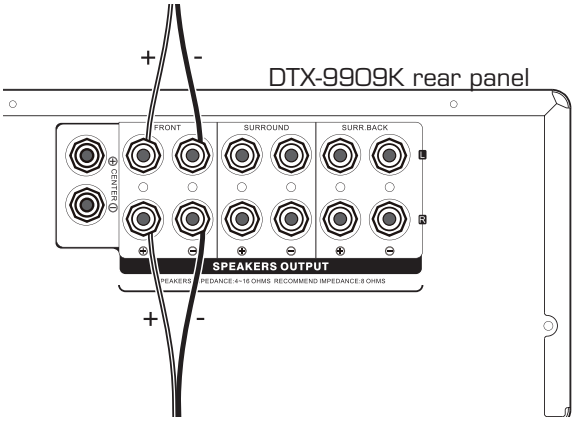
The speaker cable is a pair of insulated cables running side by side. One cable is colored or shaped differently , perhaps with a stripe, groove or ridges.

1. Connect one end of the striped (grooved, ridged, etc.) cable to the "+" (red) terminal on the rear panel of the DTX-9909K.
2. Connect the other end of the striped (grooved, ridged, etc.) cable to the "+" (red) terminal on the speaker.
3. Connect one end of the "plain" (NO stripes, grooves, ridges, etc.) cable to the "–" (black) terminal on the rear panel of the DTX-9909K.
4. Connect the other end of the "plain" (NO stripes, grooves, ridges, etc.) cable to the "–" (black) terminal on the speaker



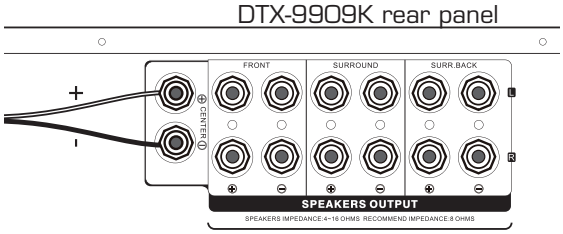
Connecting to the FRONT speaker terminals:

Connect a pair of front-positioned speakers to the "+" and "–" FRONT terminals on the rear panel of DTX-9909K following steps 1-5 on page 12.



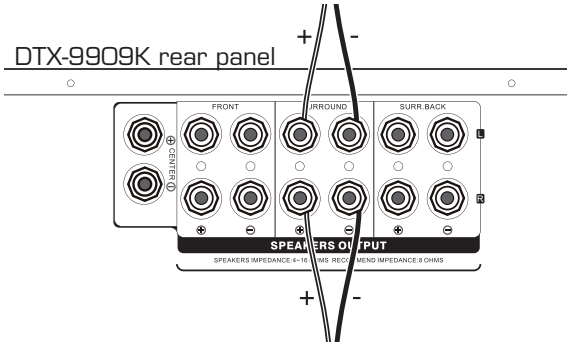
Connecting to the CENTER speaker terminals:

Connect a center-positioned speaker to the "+" and "–" CENTER terminals on the rear panel of DTX-9909K following steps 1-5 on page 12.



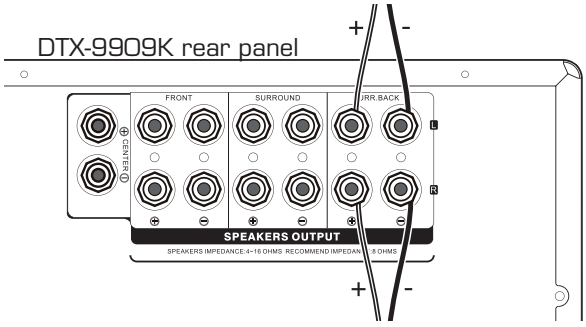
Connecting to the SURROUND speaker terminals:

Connect a pair of surround-positioned speakers to the "+" and "–" SURROUND terminals on the rear panel of DTX-9909K following steps 1-5 on page 12.



Connecting to the SURROUND BACK speaker terminals:

Connect a pair of rear surround speakers to the "+" and "–" SURR BACK terminals on the rear panel of DTX-9909K following steps 1-5 on page 12.



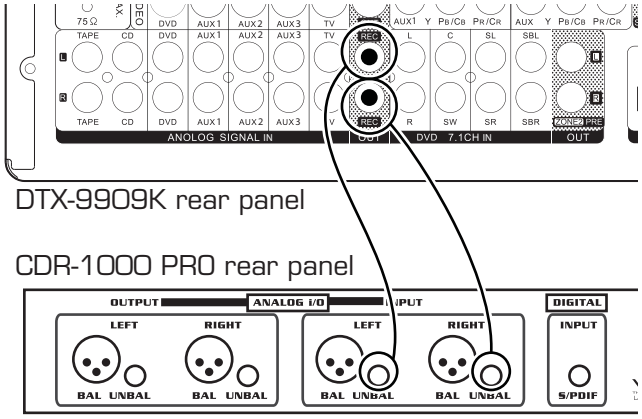
Getting Connected cont.

Connecting to the REC OUT jacks

The L/R (red and white) RCA Record Output jacks on the rear panel can be connected to any self-powered input device with RCA inputs. (i.e. recording device, powered speakers, etc)

What you will need:
- Powered device with L/R RCA inputs
- RCA L/R audio cable (red & white)

1. Connect one end of the red and white RCA cable to the REC OUT jacks on the DTX-9909K's rear panel
2. Connect the other end of the red and white RCA cable to the RCA inputs on the recording device, powered speakers, etc.



Connecting to the ZONE2 PRE jacks

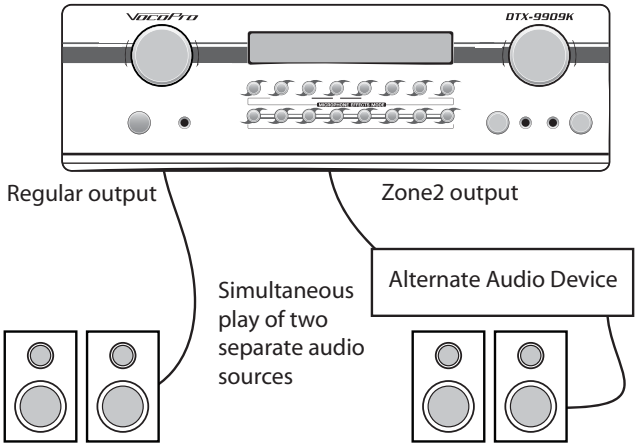
The ZONE 2 channel allows you to output any of the analog input channels to a different location to be played simultaneously with the main zone. This is common for home entertainment setups that have different things playing in different rooms at the same time.

NOTE: Zone 2 does not include any of the digital input channels: optical, coaxial, 7.1 surround sound.

The L/R (red and white) RCA ZONE2 PRE output jacks on the rear panel can be connected to any self-powered input device with RCA inputs. (i.e. recording device, powered speakers, etc)

What you will need:
- Powered device with L/R RCA inputs
- RCA L/R audio cable (red & white)

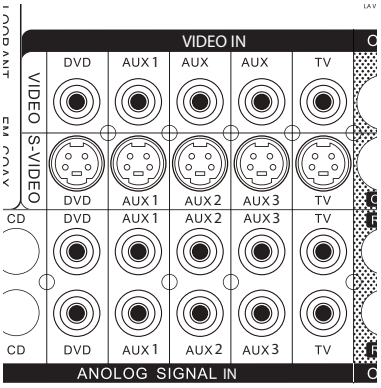
1. Connect one end of the red and white RCA cable to the ZONE2 PRE output jacks on the DTX-9909K's rear panel
2. Connect the other end of the red and white RCA cable to the RCA inputs on the recording device, powered speakers, etc.
3. Press the ZONE2 button on the front panel to enter Zone2 to make changes. The number 2 will appear in the display indicating that Zone2 is open.



Getting Connected cont.

Connecting to the DTX-9909K's Inputs

There are 5 available A/V input channels which allow you to connect up to 5 A/V players to the DTX-9909K: DVD, AUX1, AUX2, AUX3 and TV.



Choosing A Video Output

The DTX-9909K offers the user with three video output and input options that can be utilized to optimize your home theater system or KJ set up. It is recommended to use the best available connection to maximize your video output.

Composite (Yellow RCA) – This type of connection is the most common type. Outputs are found on all DVD players, camcorders and other video output devices, inputs can be found on most TVs and video monitors. This connection requires an RCA-style video cable (not included).

S – Video - This is the four-pin "seperate video" connection and provides a higher quality video signal than composite. Outputs can be found on most DVD players, camcorders and other video output devices, inputs can be found on many TVs and video monitors. This connection requires an S-Video cable (not included).

Component (Y'PbPr) – This type of connection provides the highest quality video signal of those found on the DTX-9909K. Outputs can be found on many DVD players, DVRs and other video output devices, inputs can be found on High-Definition TVs, as well as many modern Standard Definition TVs. This connection requires a component video cable (not included).

NOTE: The DTX-9909K will only output the type of video signal received from the corresponding input, it does not convert a lesser signal to a greater signal. It is recommended you use the same type of video output connection used on the input.

It is suggested that you refer to the operating instructions of your video output devices, TVs and video monitors for specific information regarding the use of these outputs and inputs.

Connecting a DVD Player with RCA Audio and Video Outputs

A DVD or other A/V player can be connected to any of the 5 inputs using the L/R (red & white) RCA audio inputs and the RCA video (yellow) input.

What you will need
- Player with RCA audio and video outputs
- RCA L/R audio cable (red & white)
- RCA video cable (yellow)

Audio
1. Connect one end of the red and white RCA audio cable to the L/R audio outputs on your player
2. Connect the other end of the red and white RCA audio cable to one of the L/R audio inputs on the DTX-9909K rear panel

Video
1. Connect one end of the RCA video cable to the RCA video output on your player
2. Connect the other end of the RCA video cable to one of the RCA video inputs on the DTX-9909K's rear panel
3. Select the proper input channel on the DTX-9909K.

   NOTE: All 5 of the A/V input channels have RCA audio and video inputs so make sure the correct one is selected.

Selecting the Correct input channel

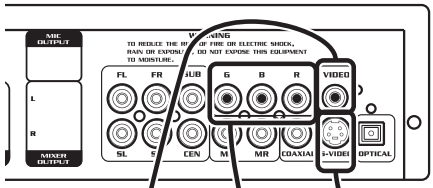
Front panel: Press the INPUT button on the DTX-9909K front panel until the correct input channel is displayed on the screen

Remote Control: Press the corresponding input button on the remote control to access the correct input channel. i.e. AUX1 for the AUX1 input channel, DVD/OPT1 for the DVD input channel, etc.

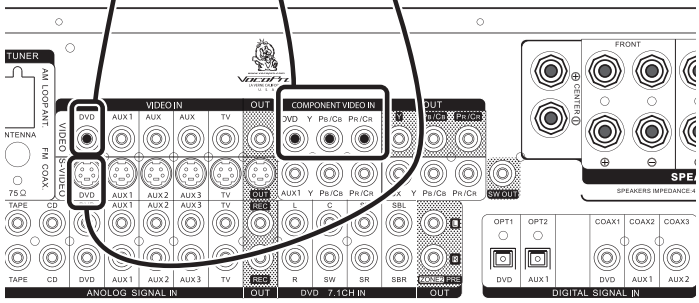
Getting Connected cont.

Video connections:

DVG-888K rear panel



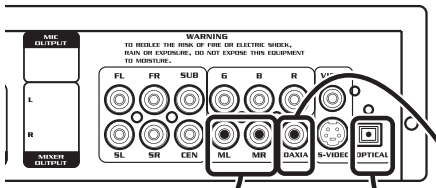
or or



DTX-9909K rear panel

Audio connections:

DVG-888K rear panel



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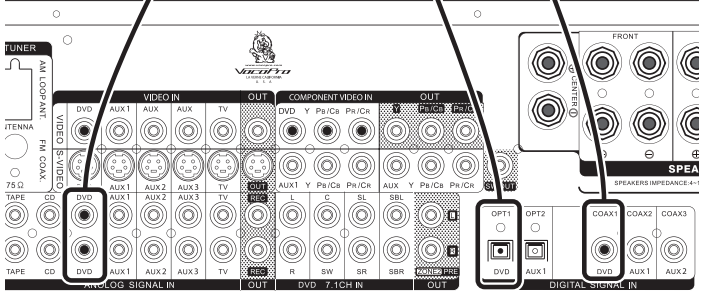


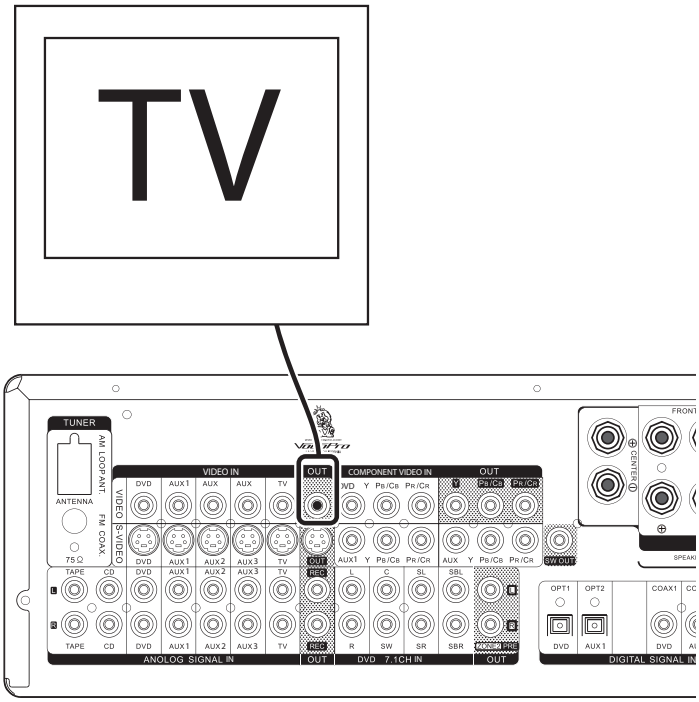
DTX-9909K rear panel

Connecting to a TV using the RCA Video (yellow) Output

What you will need

- TV/ video monitor with an RCA video input
- RCA video cable (yellow)

1. Connect one end of the RCA video cable to the RCA video OUT jack on the DTX-9909K rear panel
2. Connect the other end of the RCA video cable to the RCA video input on the TV/Video monitor
3. Make sure the TV/Video monitor is set to the correct video input. Consult the TV/Video monitor's user manual for the necessary instructions.



DTX-9909K rear panel

Getting Connected cont.

Connecting a DVD Player Video using S-Video Inputs

There are 5 available S-Video inputs located on the rear panel.

NOTE: Make sure you connect each player's S-Video the same input on the DTX-9909K that that player's audio is connected to. i.e. If it is connected to the AUX1 audio inputs, connect to the S-Video input on the AUX1 input channel.

What you will need
- Player with an S-Video output
- S-Video cable

1. Connect one end of the S-Video Cable to the S-Video output on your player
2. Connect the other end of the S-Video Cable to one of the S-Video inputs on the DTX-9909K's rear panel
3. Select the proper input channel on the DTX-9909K

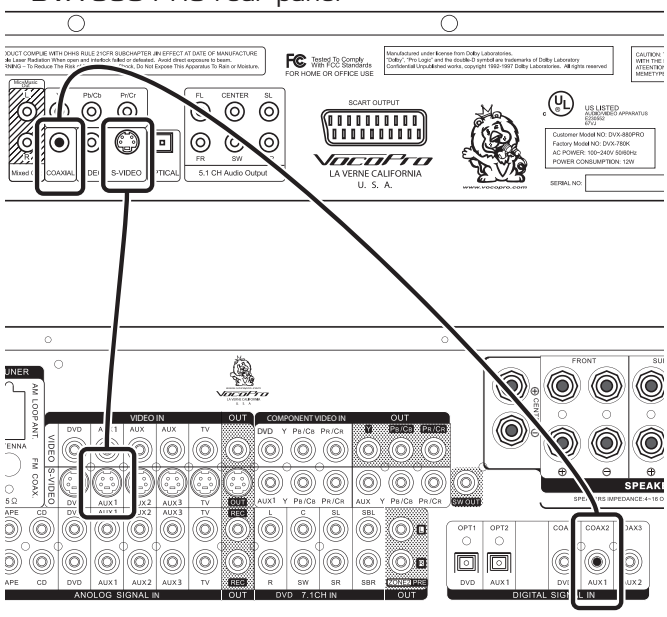
   NOTE: All 5 of the A/V input channels have an S-Video input so make sure the correct one is selected.

Selecting the correct input channel:

Front panel: Press the INPUT button on the DTX-9909K front panel until the correct input channel is displayed on the screen

Remote Control: Press the corresponding input button on the remote control to access the correct input channel. i.e. AUX1 for the AUX1 input channel, DVD/OPT1 for the DVD input channel, etc.

DVX-880 PRO rear panel

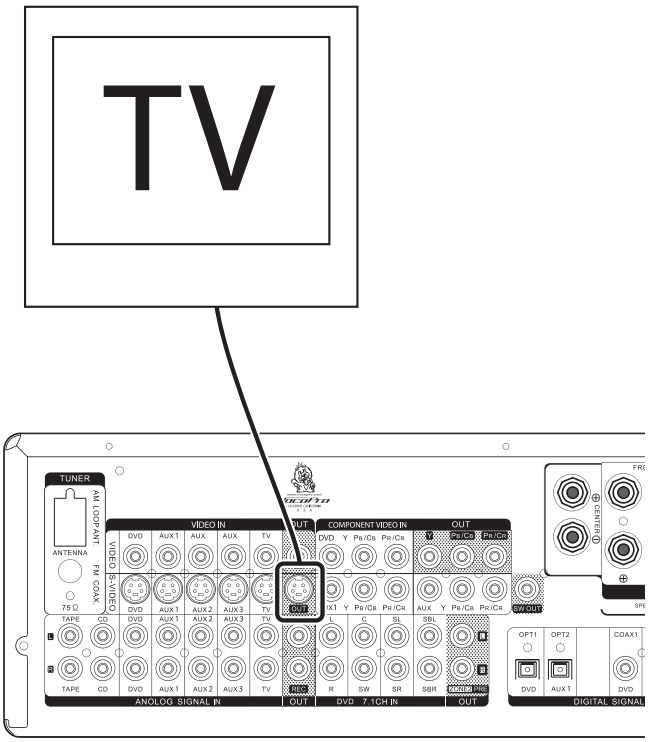


DTX-9909K rear panel

Connecting to a TV / Video Monitor using the S-Video Output

What you will need
- TV/ video monitor with an S-Video video input
- S-Video video cable

1. Connect one end of the S-Video video cable to the S-Video OUT jack on the DTX-9909K rear panel
2. Connect the other end of the S-Video video cable to the S-Video video input on the TV/Video monitor
3. Make sure the TV/Video monitor is set to the correct video input. Consult the TV/Video monitor's user manual for the necessary instructions



DTX-9909K rear panel

Getting Connected cont.

Connecting a DVD Player Video using the Component Video Input(s)

There are Component Video (Y, Pb/Cb, Pr/Cr) inputs on 3 of the DTX-9909K's input channels: DVD, AUX1 and AUX2.

NOTE: When connecting a player to the Component Video inputs, make sure that the player's audio outputs are connected to the same input channel. i.e. If the player is connected to the Y, Pb/Cb, Pr/Cr inputs on the AUX2 channel, make sure that the player's audio is connected to AUX2 audio inputs as well.

What you will need
- Player with Component Video outputs
- Set of component video cables

1. Connect one end of each of the component video cables to the Component Video (Y, Pb/Cb, Pr/Cr) outputs on the player
2. Connect the other ends of the component video cables to one of the Y, Pb/Cb, Pr/Cr Inputs on the DTX-9909K rear panel
3. Select the proper input channel on the DTX-9909K

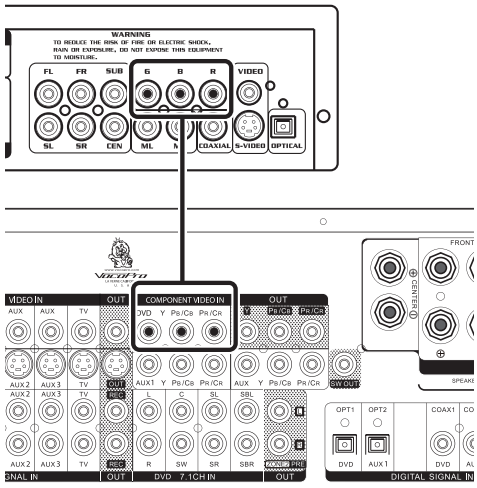
   NOTE: 3 of the A/V input channels have Component video inputs, DVD, AUX1 and AUX2, so make sure the correct one is selected.

Selecting the correct input channel:

Front panel: Press the INPUT button on the DTX-9909K front panel until the correct input channel is displayed on the screen

Remote Control: Press the corresponding input button on the remote control to access the correct input channel. i.e. AUX1 for the AUX1 input channel, DVD/OPT1 for the DVD input channel, etc.

DVG-888K rear panel

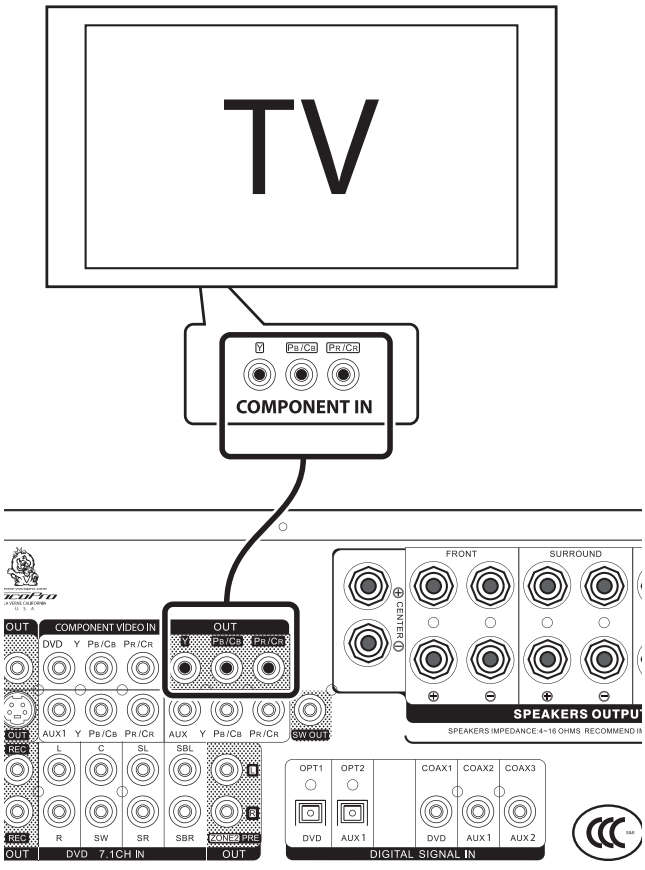


DTX-9909K rear panel

Connecting to a TV / Video Monitor using the Component Video (Y, Pb/Cb, Pr/Cr) Outputs

What you will need
- TV/ video monitor with Component Video inputs
- Component video cable

1. Connect one end of each of the Component video cables to each of the Component Video Output jacks on the DTX-9909K rear panel
2. Connect the other ends of the Component video cables to the Component Video inputs on the TV/Video monitor
3. Make sure the TV/Video monitor is set to the correct video input. Consult the TV/Video monitor's user manual for the necessary instructions



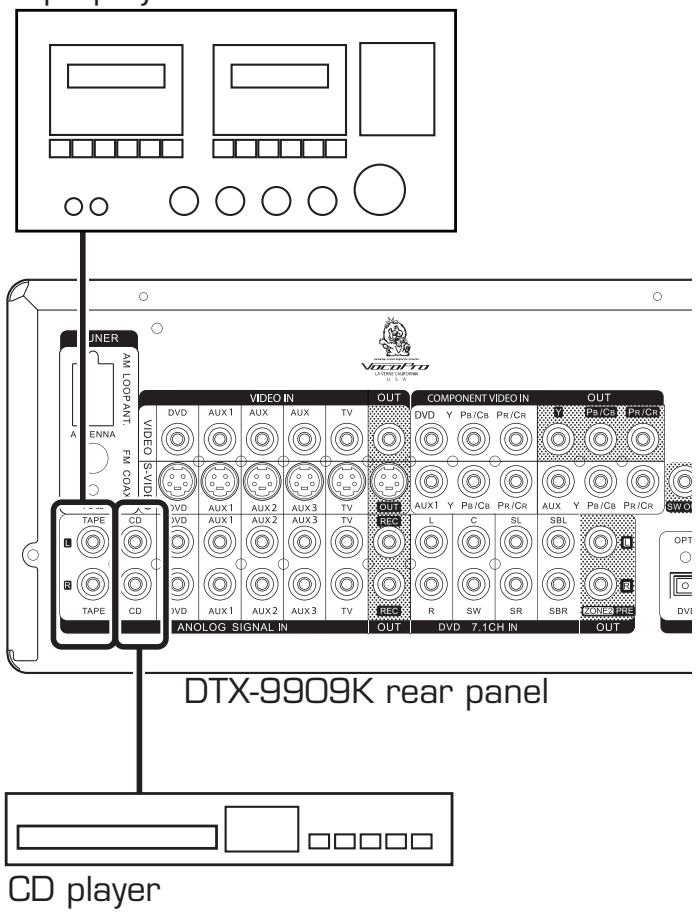
DTX-9909K rear panel

Getting Connected cont.

Connecting a CD or Tape Player (audio-only)

Use the CD and TAPE inputs on the rear panel to connect audio-only devices (CD, Mp3, tape players) with RCA outputs.

Tape player



DTX-9909K rear panel

CD player

Selecting the correct input channel:

Front panel: Press the INPUT button on the DTX-9909K front panel until the correct input channel is displayed on the screen.

Remote Control: Press the corresponding input button on the remote control to access the correct input channel. i.e. TAPE/COX button for the TAPE input channel or the CD/COX2 button for the CD input channel.

Getting Connected cont.

Digital Audio Options

The DTX-9909K allows you to utilize the premium sound experience that digital audio offers by providing five digital audio inputs. A digital connection allows for an entirely digital signal to be sent to, and decoded by the DTX-9909K. This eliminates the need for an analog signal or conversion and the subsequent loss in fidelity and quality. Take advantage of the DTS or Dolby Digital capabilities of many DVDs and CDs by using either of the two types of inputs found here and give your home theater or KJ set up the digital edge.

DIGITAL OPTICAL – This input, also known as TOSLINK, provides a digital connection through the use of a single-pin fiber optic cable.

DIGITAL COAXIAL – This input provides a digital connection through the use of an RCA-style coaxial cable.

Note that both types of inputs are nearly identical in signal quality, they are both available on the DTX-9909K to allow flexibility with your existing equipment. DIGITAL OPTICAL may provide a stronger signal over a long distance connection, but this is usually not a concern in most home theater and KJ set ups.

Connecting a Player with Digital Optical Audio Outputs

There are 2 Digital Optical audio inputs on the DTX-9909K rear panel: OPT1 and OPT2.

What you will need
- Player with a Digital Optical output
- Digital Optical cable

1. Connect one end of the Optical cable to the Optical audio output on the player
2. Connect the other end of the Optical cable to either of the Optical inputs on the DTX-9909K rear panel
3. Select the proper input channel on the DTX-9909K. Select the DVD input channel for OPT1 and the AUX1 input channel for OPT2

   NOTE: Make sure the player's video is also connected to the correct input channel

Matching up the Correct Video Input

OPT1 Video: When connecting a player's audio to the OPT1 input, make sure that player's video is connected to one of the video inputs on the DVD input channel.

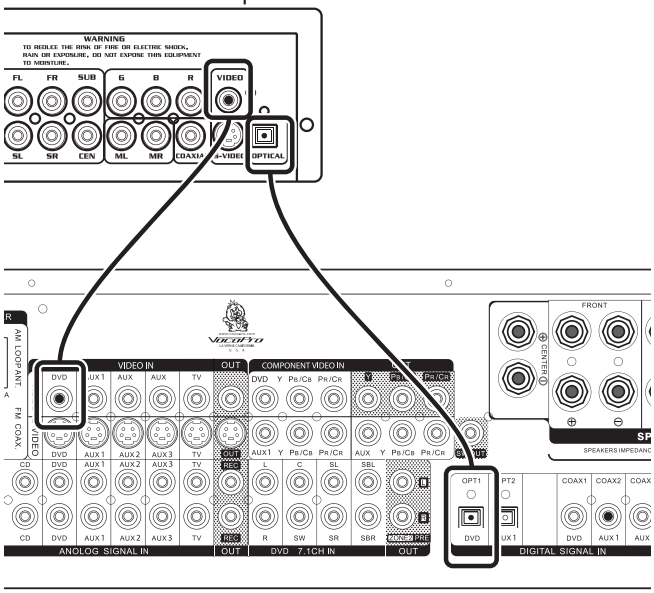
OPT2 Video: When connecting a player's audio to the OPT2 input, make sure that player's video is connected to one of the video inputs on the AUX1 input channel.

Selecting the correct input channel:

Front panel: Press the INPUT button on the DTX-9909K front panel until the correct input channel is displayed on the screen.

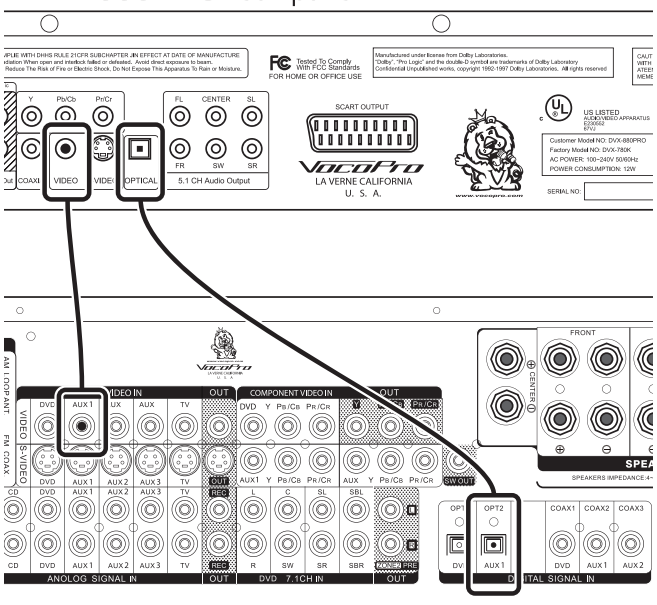
Remote Control: Press the corresponding input button on the remote control to access the correct input channel. i.e. DVD/OPT1 button for the OPT1 input channel or the AUX1/OPT2 button for the OPT2 input channel.

DVG-888K rear panel



DTX-9909K rear panel

DVX-880 PRO rear panel



DTX-9909K rear panel

Getting Connected cont.

Connecting a Player with Digital Coaxial Audio Outputs

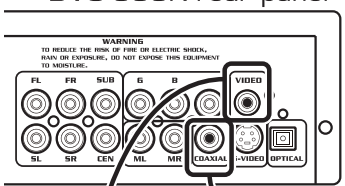
There are 3 Digital Coaxial audio inputs on the DTX-9909K rear panel: COAX1, COAX2 and COAX3.

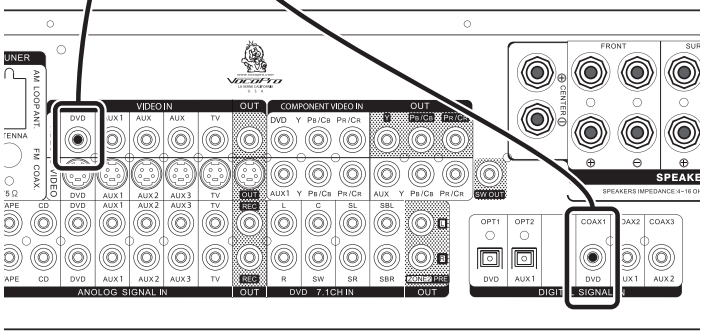
What you will need
- Player with a Digital Coaxial output
- Digital Coaxial cable

1. Connect one end of the Coaxial cable to the Coaxial audio output on the player
2. Connect the other end of the Coaxial cable to either of the Coaxial inputs on the DTX-9909K rear panel
3. Select the proper input channel on the DTX-9909K. Select the DVD input channel for COAX1, the AUX1 input channel for COAX2 and the AUX2 input channel for COAX3

   NOTE: Make sure the player's video is also connected to the correct input channel

DVG-888K rear panel





DTX-9909K rear panel

Matching up the Correct Video Input

COAX1/DVD: When connecting a player's audio to the COAX1 input, make sure that player's video is connected to one of the video inputs on the DVD input channel.

COAX2/AUX1: When connecting a player's audio to the COAX2 input, make sure that player's video is connected to one of the video inputs on the AUX1 input channel.

COAX3/AUX2: When connecting a player's audio to the COAX3 input, make sure that player's video is connected to one of the video inputs on the AUX2 input channel.

Selecting the correct input channel:

Front panel: Press the INPUT button on the DTX-9909K front panel until the correct input channel is displayed on the screen

Remote Control: Press the corresponding input button on the remote control to access the correct input channel. i.e. TAPE/COX1 button for the COAX1 input channel, the CD/COX2 button for the COAX2 input channel and the AUX2/COX3 button for the COAX3 input.

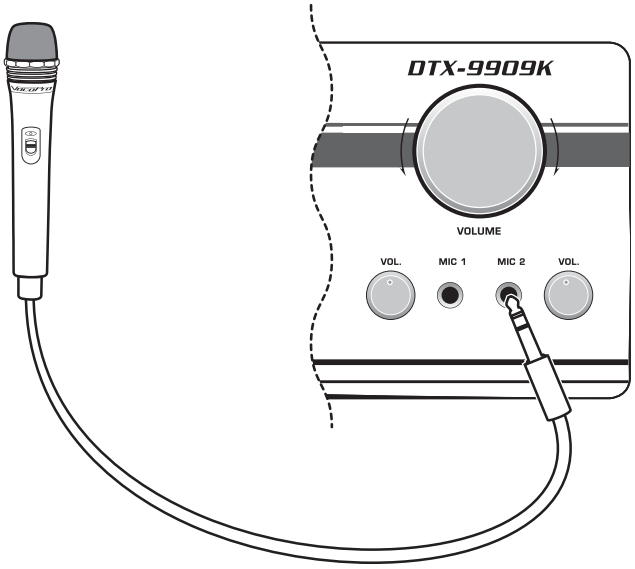
Getting Connected cont.

Connecting Microphones

You can connect up to 2 microphones to the DTX-9909K using ¼" microphone cables.

What you will need
- 2 microphones
- 2 ¼" microphone cables

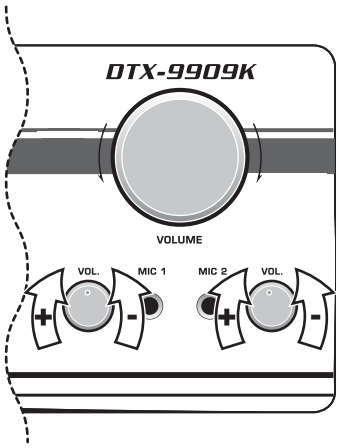
Connect the ¼" end of the microphone cable to one of the microphone inputs, MIC 1 or MIC 2, on the front panel.



Adjusting the Microphone Volume

Use the microphone volume controls on the front panel to adjust the volume for each microphone channel

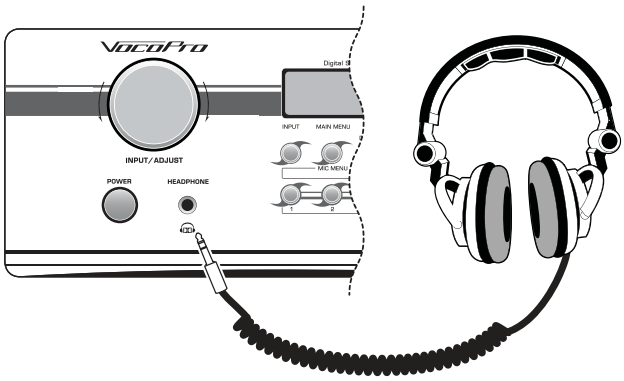
1. Turn the control clockwise to raise the microphone volume
2. Turn the control counter clockwise to lower the microphone volume



Connecting Headphones

You can connect headphones to the DTX-9909K using headphones with a ¼" jack.

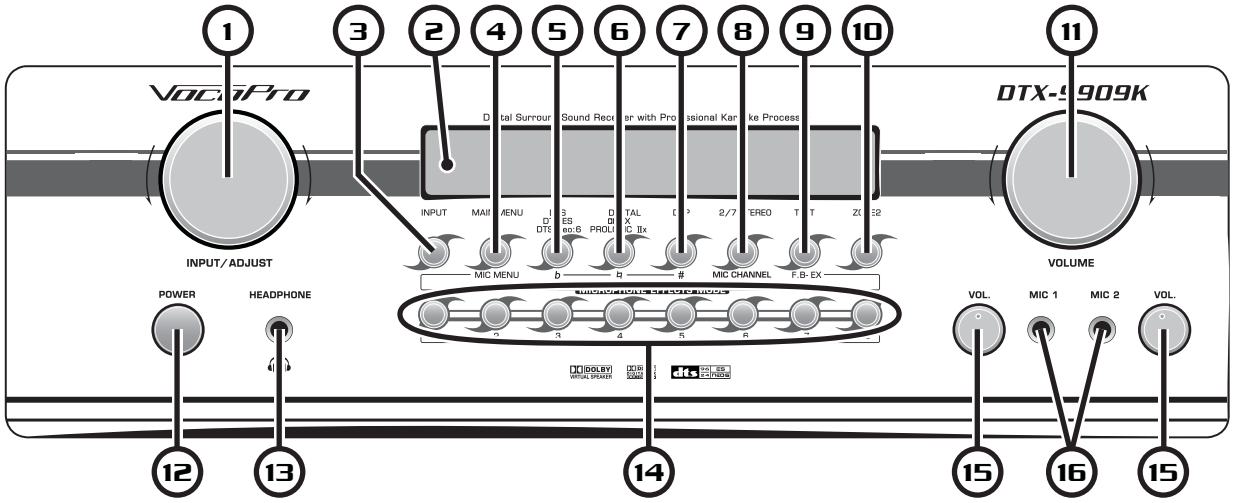
Connect the ¼" headphone cable to the headphone input jack on the DTX-9909K front panel



Headphone Notes

- Do not play the headset at a high volume. Hearing experts advise against continuous, extended play
- If you experience a ringing in your ears, reduce volume or discontinue use
- Always turn down the volume before connecting your headphones
- The speakers are turned off while the headphones plug is connected to the headphone jack
- When you connect a pair of headphones, the listening mode is set to stereo unless it is already set to 2-Ch stereo. When you disconnect the headphones, the previous listening mode will resume
- When the multi-channel input is used, only the front left and right audio can be heard in the headphones

Descriptions and Functions
Front Panel



1. **Input/Adjust control** - Cycles through the available input channels when in input mode or adjusts the parameters for various settings including audio settings, surround-sound settings, microphone effect settings, etc. In Karaoke Mode, this control adjusts the master microphone volume. Turn clockwise to raise the master microphone volume and counter-clockwise to lower it.

   About Karaoke Mode and Music Mode:

   The DTX-9909K automatically enters Karaoke Mode when a microphone is connected to either of the microphone inputs on the front panel. When no microphones are connected, it will be in Music Mode.

2. **Display screen** - Displays various operating information. (e.g. Main Volume, DSP, source and parameter, etc.)
3. **Input button** - Enters input mode and cycles through the available input channels. The Input/Adjust control can also be used to cycle through the available input channels when the receiver is in input mode.
4. **Main Menu** - Enters the Main Menu and cycles through the available menu options. Use the Input/Adjust control to change the actual settings for each menu option.
5. **DTS, DTX ES, and DTS NEO:6 / b (Digital Key Control) button** - In Music Mode, use this button to select the correct DTS setting. Select DTS when playing a disc that is formatted with DTS 5.1* surround sound, DTS ES when using a disc that is formatted with DTS ES 6.1* surround sound and DTS NEO:6 to create "virtual" 5.1 or 6.1 surround-sound from a 2-channel source such as a VCR, CD-player, etc. In Karaoke Mode, use this button to lower the key of the disc music.

   About Karaoke Mode and Music Mode:

   The DTX-9909K automatically enters Karaoke Mode when a microphone is connected to either of the microphone inputs on the front panel. When no microphones are connected, it will be in Music Mode.

   *NOTE: In order to get true 5.1 or 6.1 surround sound, the disc must be formatted with 5.1 or 6.1 surround-sound audio. Check your disc's packaging if you are not sure whether it is formatted for 5.1 or 6.1 surround-sound.

6. **Dolby mode select / ♮ (Digital Key Control) button** - Cycle between the Dolby Digital, Dolby Digital Surround EX mode and the Dolby Pro Logic IIx Movie/Music modes. In Karaoke Mode, use this button to reset the key of the disc music back to its original or natural key.

   About Karaoke Mode and Music Mode:

   The DTX-9909K automatically enters Karaoke Mode when a microphone is connected to either of the microphone inputs on the front panel. When no microphones are connected, it will be in Music Mode.

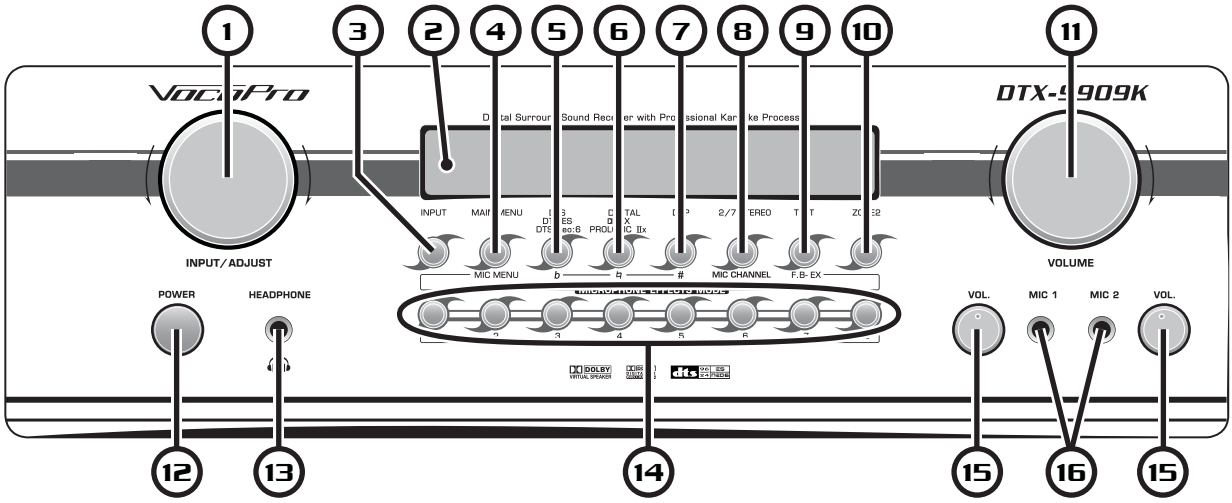
   Dolby Digital: for 5.1-channel surround sound on DVDs that are labeled with the Dolby Digital logo DOLBY DIGITAL.

   Dolby Digital Surround EX: For 6.1-channel surround sound on DVDs that are labeled with the Dolby Digital EX logo DOLBY DIGITAL · EX

   Dolby Pro Logic IIx Movie: For 5.1-channel surround sound on DVDs and videos that are labeled with the Dolby Surround Pro Logic II logo DOLBY SURROUND PRO LOGIC II. This can also be used with stereo movies or TV programs and other 2-channel stereo devices.

   Dolby Pro Logic IIx Music: For adding 5.1 surround sound to stereo sources such as music CDs and DVDs.

Descriptions and Functions
Front Panel



7. DSP / # (Digital Key Control) button - Cycles through the virtual EQ settings: CHURCH, DISCO, HALL, JAZZ, LIVE, STADIUM, THEATER and OFF. Select the one that best fits the movie or music you are playing.

NOTE: This option is not available on the 7.1 Input channel or when playing a DVD that is set to Dolby output. In Karaoke Mode, use this button to raise the key of the disc music.

About Karaoke Mode and Music Mode:

The DTX-9909K automatically enters Karaoke Mode when a microphone is connected to either of the microphone inputs on the front panel. When no microphones are connected, it will be in Music Mode.

8. 2/7 Stereo / MIC CHANNEL - When a L/R stereo device is connected to the DTX-9909K, you can set it to send the audio to just the right and left speakers (2-channel) or to the surround sound speaker outputs (7-channel/5-channel).

In Music Mode, this button switches between 2-channel stereo mode and 7-channel stereo mode. In Karaoke Mode, this button switches between 2-channel stereo mode and the available 5-channel output configurations: L R C (left, right, Center), SL SR L R C (side-left, side-right, left, right, Center), SL SR C (side-left, side-right, center), L R (left, right), and C (center).

NOTE: when using either the 7-channel or Mic Channel modes, you must have speakers connected to the red & black surround speaker outputs on the rear panel.

About Karaoke Mode and Music Mode:

The DTX-9909K automatically enters Karaoke Mode when a microphone is connected to either of the microphone inputs on the front panel. When no microphones are connected, it will be in Music Mode.

9. TEST / F.B EX button - In Music Mode, press this button to perform a channel test. The channel test sends sound to each of the speaker outputs to test whether they are connected correctly. The display screen will show which speaker is being tested at a given time so that you can make sure the connections are correct.

In Karaoke Mode, use this button to cycle through the 3 levels of DSP feedback eliminator or to turn it off.

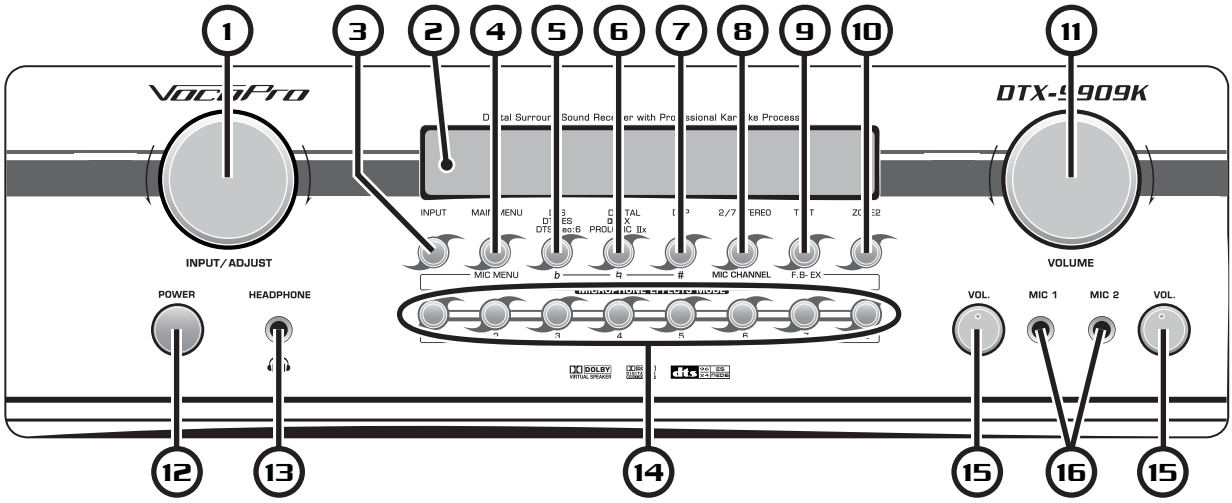
10. Zone2 button - Toggles between input channel Zone 1 and input channel Zone 2.

Zone 1 (Default main mode): Analog and digital input channels (DVD, AUX1, AUX2, AUX3, TV, AM/FM Tuner, 7.1 CH, OPT1, OPT2, COAX1, COAX2, COAX3, TAPE and CD)

Zone 2: Analog input channels (DVD, AUX1, AUX2, AUX3, TV, AM/FM Tuner, TAPE and CD)

NOTE: The DTX-9909K will always be set to ZONE 1 unless you press the ZONE2 button

Descriptions and Functions
Front Panel



11. Master Volume control - Controls the music volume. Turn clockwise to raise the music volume and counter-clockwise to lower the music volume.

12. Power (main power) button - Turns the DTX-9909K's main power on and off. Press the button in to turn the power on and press it out to turn the power off.

13. Headphone input jack (¼") - Connect headphones to this jack using a ¼" headphone cable. The speakers are turned off while the headphones plug is connected to the headphone jack.

14. Microphone Effects Mode buttons - When in Karaoke Mode, use these buttons to select 8 different preset vocal tone and effect configurations.

About Karaoke Mode and Music Mode:

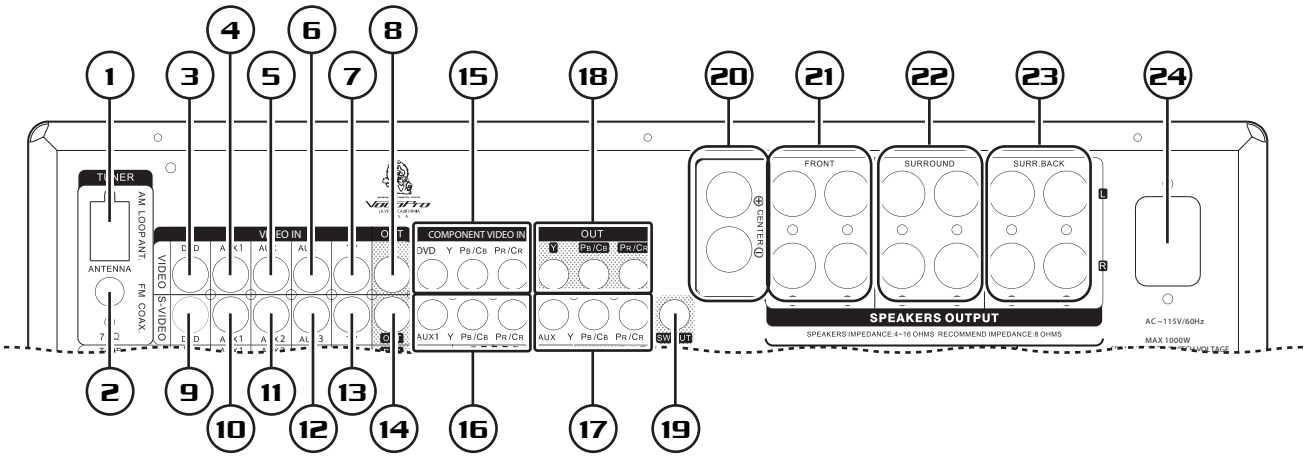
The DTX-9909K automatically enters Karaoke Mode when a microphone is connected to either of the microphone inputs on the front panel. When no microphones are connected, it will be in Music Mode.

15. Microphone volume controls - Use these controls to adjust each microphone channel's individual volume. Turn the control clockwise to raise the microphone's volume and counter-clockwise to lower it.

16. Microphone input jacks (¼") - Connect a microphone to each of these jacks using ¼" microphone cables.

NOTE: When a microphone is connected to one of these jacks, the DTX-9909K will enter Karaoke Mode.

Descriptions and Functions
Rear Panel



1. **AM Loop Antenna input** - Connect the AM radio tuner antenna here
2. **FM Coax antenna input** - Connect the FM radio tuner antenna here
3. **DVD RCA video input** - RCA video input for the DVD input channel. Connect here using an RCA video (yellow) cable.

   NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the DVD input channel.
4. **AUX1 RCA video input** - RCA video input for the AUX1 input channel. Connect here using an RCA video (yellow) cable.

   NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the AUX1 input channel.
5. **AUX2 RCA video input** - RCA video input for the AUX2 input channel. Connect here using an RCA video (yellow) cable.

   NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the AUX2 input channel.
6. **AUX3 RCA video input** - RCA video input for the AUX3 input channel. Connect here using an RCA video (yellow) cable.

   NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the AUX3 input channel.
7. **TV RCA video input** - RCA video input for the TV input channel. Connect here using an RCA video (yellow) cable.

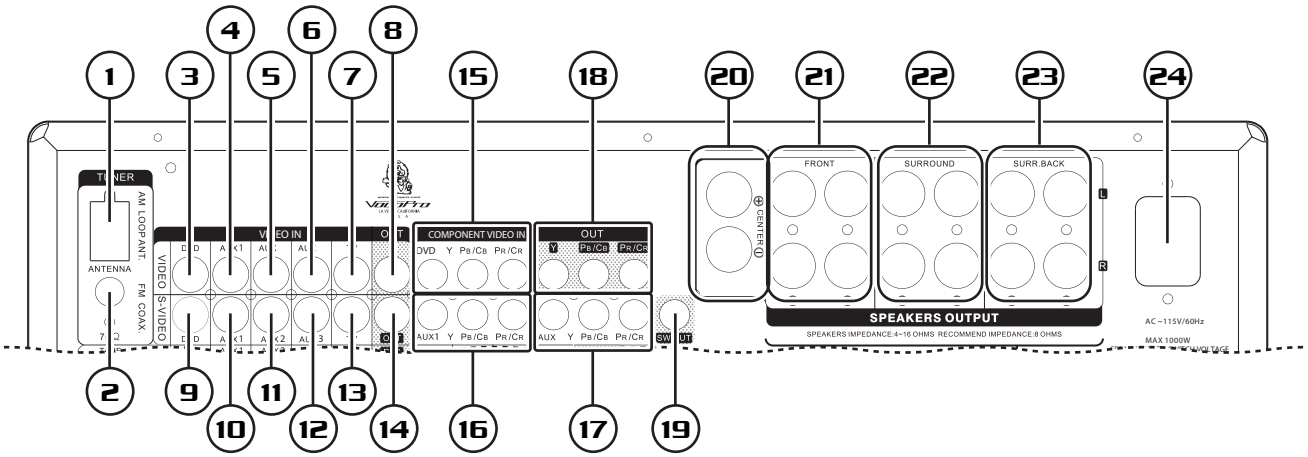
   NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the TV input channel.
8. **RCA Video output jack** - Connects to a TV with an RCA video input. Connect here using an RCA video (yellow) cable. This will play the video from a player that is connected to one of the RCA video input jacks. Make sure that the correct input channel is selected.
9. **DVD S-Video input** - S-Video input for the DVD input channel. Connect here using an S-Video cable.

   NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the DVD input channel.
10. **AUX1 S-Video input** - S-Video input for the AUX1 input channel. Connect here using an S-Video cable.

    NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the AUX1 input channel.
11. **AUX2 S-Video input** - S-Video input for the AUX2 input channel. Connect here using an S-Video cable.

    NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the AUX2 input channel.

Descriptions and Functions
Rear Panel



12. AUX3 S-Video input - S-Video input for the AUX3 input channel. Connect here using an S-Video cable.

NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the AUX3 input channel.

13. TV S-Video input - S-Video input for the TV input channel. Connect here using an S-Video cable.

NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the TV input channel.

14. S-Video output jack - Connects to a TV with an S-Video input. Connect here using an S-Video cable. This will play the video from a player that is connected to one of the S-Video input jacks. Make sure that the correct input channel is selected.

15. DVD Component Video (Y, Pb/Cb, Pr/Cr) input - Component Video input for the DVD input channel. Connect to a TV with Component Video inputs, using a set of Component Video cables.

NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the DVD input channel.

16. AUX1 Component Video (Y, Pb/Cb, Pr/Cr) input - Component Video input for the AUX1 input channel. Connect to a TV with Component Video inputs, using a set of Component Video cables.

NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the AUX1 input channel.

17. AUX2 Component Video (Y, Pb/Cb, Pr/Cr) input - Component Video input for the AUX2 input channel. Connect to a TV with Component Video inputs, using a set of Component Video cables.

NOTE: If a player's video is connected to this input, make sure its audio is connected to an audio input that is on the AUX2 input channel.

18. Component Video (Y, Pb/Cb, Pr/Cr) output - Connects to a TV with Component Video (Y, Pb/Cb, Pr/Cr) inputs. Connect here using a set of Component Video cables. This will play the video from a player that is connected to one of the Component Video input jacks. Make sure that the correct input channel is selected.

19. Subwoofer output - Connects to a powered subwoofer with an RCA input.

NOTE: Requires a powered subwoofer or a power amplifier.

20. Center (C) speaker output - Connect to the Center surround sound speaker using speaker cables with exposed wires or banana plugs.

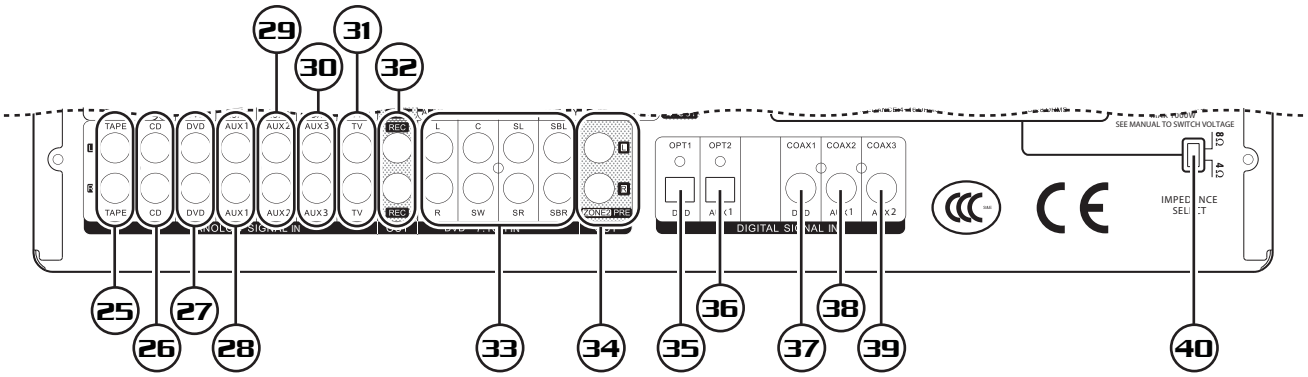
21. Front Left and Front Right speaker outputs - Connect to the Front Left and Front Right speakers using speaker cables with exposed wires or banana plugs.

22. Surround Left and Surround Right speaker outputs - Connect to the Surround Left and Surround Right surround sound speakers using speaker cables with exposed wires or banana plugs.

23. Surround Back Left and Surround Back Right speaker outputs - Connect to the Surround Back Left and Surround Back Right surround sound speakers using speaker cables with exposed wires or banana plugs.

24. AC input plug - Connect the power cable here.

Descriptions and Functions
Rear Panel



25. TAPE L/R Stereo RCA inputs - Stereo RCA inputs for the TAPE input channel. Connect here using stereo RCA audio (red & white) cables. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the Tape input channel.

26. CD L/R Stereo RCA inputs - Stereo RCA inputs for the CD input channel. Connect here using stereo RCA audio (red & white) cables. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the CD input channel.

27. DVD L/R Stereo RCA inputs - Stereo RCA inputs for the DVD input channel. Connect here using stereo RCA audio (red & white) cables. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the DVD input channel.

NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA, S-Video or Component) that is on the DVD input channel.

28. AUX1 L/R Stereo RCA inputs - Stereo RCA inputs for the AUX1 input channel. Connect here using stereo RCA audio (red & white) cables. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the AUX1 input channel.

NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA, S-Video or Component) that is on the AUX1 input channel.

29. AUX2 L/R Stereo RCA inputs - Stereo RCA inputs for the AUX2 input channel. Connect here using stereo RCA audio (red & white) cables. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the AUX2 input channel.

NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA, S-Video or Component) that is on the AUX2 input channel.

30. AUX3 L/R Stereo RCA inputs - Stereo RCA inputs for the AUX3 input channel. Connect here using stereo RCA audio (red & white) cables. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the AUX3 input channel.

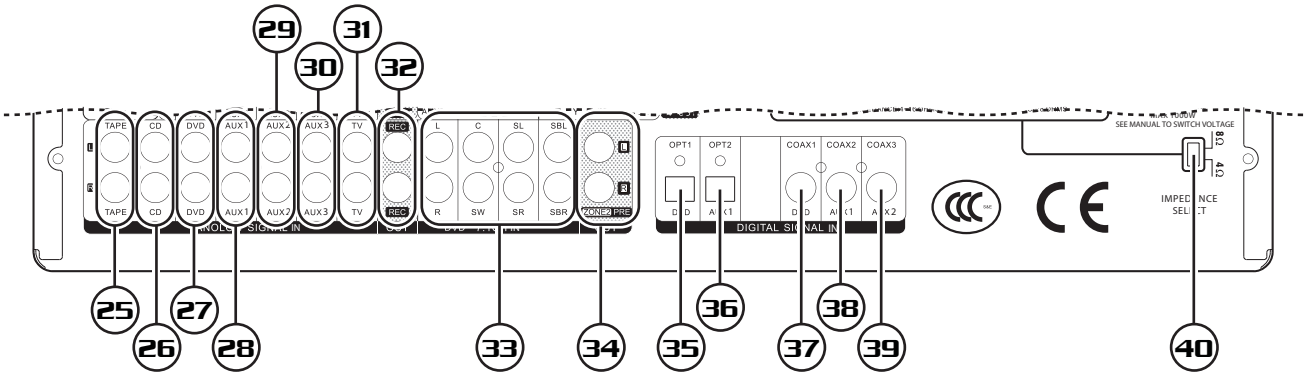
NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA or S-Video) that is on the AUX3 input channel.

31. TV L/R Stereo RCA inputs - Stereo RCA inputs for the TV input channel. Connect here using stereo RCA audio (red & white) cables. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the TV input channel.

NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA or S-Video) that is on the TV input channel.

32. Record Out L/R RCA jacks - Connect to a recording device, powered speakers, or any device with RCA L/R inputs.

Descriptions and Functions
Rear Panel



33. DVD 7.1 Channel Surround Sound input jacks - Connect a player with 5.1 or 7.1 digital surround sound audio outputs here.

34. ZONE2 Pre Out L/R RCA jacks - Connect to a second mixer or receiver to output ZONE2. This output will play whichever input channel ZONE2 is set to play. The ZONE 2 channel allows you to output any of the analog input channels to a different location to be played simultaneously with the main zone. This is common for home entertainment setups that have different things playing in different rooms at the same time.

NOTE: Zone 2 does not include any of the digital input channels: optical, coaxial, 7.1 surround sound.

35. OPT1 Digital Optical Audio input - Digital optical audio input for the OPT1/DVD input channel. Connect here using a digital optical cable. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the OPT1 input channel.

NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA, S-Video or Component) that is on the DVD input channel.

36. OPT2 Digital Optical Audio input - Digital optical audio input for the OPT2/AUX1 input channel. Connect here using a digital optical cable. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the OPT2 input channel.

NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA, S-Video or Component) that is on the AUX1 input channel.

37. COAX1 Digital Coaxial Audio input - Digital Coaxial audio input for the COX1/DVD input channel. Connect here using a digital coaxial cable. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the COX1 input channel.

NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA, S-Video or Component) that is on the DVD input channel.

38. COAX2 Digital Coaxial Audio input - Digital Coaxial audio input for the COX2/AUX1 input channel. Connect here using a digital coaxial cable. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the COX2 input channel.

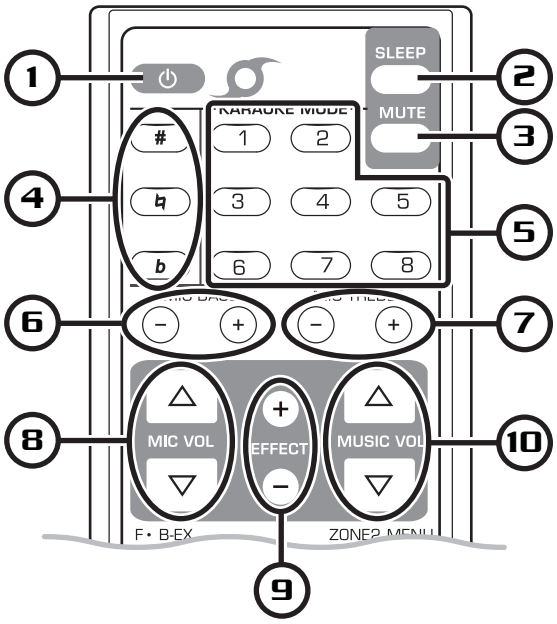
NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA, S-Video or Component) that is on the AUX1 input channel.

39. COAX3 Digital Coaxial Audio input - Digital Coaxial audio input for the COX3/AUX2 input channel. Connect here using a digital coaxial cable. When using a player that is connected to these inputs, make sure the DTX-9909K is set to the COX3 input channel.

NOTE: If a player's audio is connected to this input, make sure its video is connected to a video input (RCA, S-Video or Component) that is on the AUX2 input channel.

40. 8Ω & 4Ω Impedance Selector switch - Switches between 8Ω & 4Ω output.

Descriptions and Functions
Remote Control



1. **Standby button** - When the receiver's main power is on, use this button to turn Standby Mode on and off. Standby mode is similar to turning the machine off but in Standby mode, the DTX-9909K consumes a small amount of power in order to receive infrared signals from the remote control.
2. **Sleep button** - Accesses the sleep timer. The sleep timer can be set to automatically turn the DTX-9909K off. Press this button to cycle through the available sleep times: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110 and 120 minutes. To turn the Sleep Timer off, press the Sleep button until SLEEP OFF appears on the display screen.
3. **Mute button** - Turns Mute on and off. When Mute is turned on, there will be no music or microphone sound.
4. **Digital Key Control** - Adjusts the musical key of music to fit the singer's vocal range.

   b - Lowers the musical key

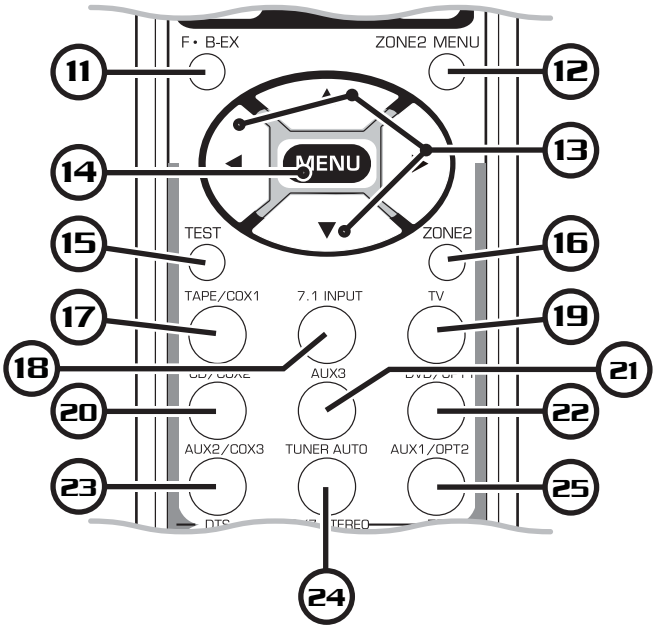
   ♮ - Resets the music to the original or 'natural' key

   # - Raises the musical key

   NOTE: Digital Key Control changes the key of music but will not affect the microphone vocals.

5. **Microphone Effects Mode buttons** - When in Karaoke Mode, use these buttons to select 8 different preset vocal tone and effect configurations.
6. **Mic Bass buttons** - In Karaoke Mode*, adjusts the amount of Bass tone that is present in the vocal signal. Press the '+' button to increase the amount of bass and the '–' button to decrease it.
7. **Mic Treble buttons** - In Karaoke Mode*, adjusts the amount of Treble tone that is present in the vocal signal. Press the '+' button to increase the amount of Treble and the '–' button to decrease it.
8. **Mic Volume buttons** - In Karaoke Mode*, adjusts the master microphone volume. Press the ▲ button to increase the microphone volume and the ▼ button to decrease it.
9. **Mic Effect + and – buttons** - In Karaoke Mode*, adjusts the amount of DSP Effect that is applied to the vocal signal. Press the '+' button to increase the Effect level and the '–' button to decrease it.
10. **Music Volume buttons** - Adjusts master music volume. Press the ▲ button to increase the music volume and the ▼ button to decrease it.

Descriptions and Functions
Remote Control



11. F.B-EX (feedback eliminator) button - In Karaoke Mode*, use this button to cycle through the 3 levels of DSP feedback eliminator or to turn it off.

12. Zone 2 Menu button - Accesses the music Bass and Treble menus for Zone 2. Press the Zone 2 Menu button to choose either Bass2 or Treble2 and use the ◀ button on the remote to decrease the Bass or Treble and the ▶ to increase it.

13. Arrow buttons - Use the arrow buttons to adjust the various speaker settings. Use the ▲ and ▼ arrows to select which settings to adjust. Use the ◀ and ▶ buttons to change the parameters for each settings. To open the Speaker Settings menu press either of the ▲ and ▼ arrows or press the MENU button.

14. Menu button - Accesses the Speaker Settings Menu. Use the arrow buttons to make changes in the Speaker Settings Menu. All of the information will appear on the display screen on the front panel.

15. Test button - Press this button to perform a channel test. The channel test sends sound to each of the speaker outputs to test whether they are connected correctly. The display screen will show which speaker is being tested at a given time so that you can make sure the connections are correct.

16. Zone2 Button - Toggles between input channel Zone 1 and input channel Zone 2.

Zone 1: Analog and digital input channels (DVD, AUX1, AUX2, AUX3, TV, AM/FM Tuner, 7.1 CH, OPT1, OPT2, COAX1, COAX2, COAX3, TAPE and CD)

Zone 2: Analog input channels (DVD, AUX1, AUX2, AUX3, TV, AM/FM Tuner, TAPE and CD)

17. Tape/COX1 input button - Toggles between the TAPE and COAX1 input channels. When the DTX-9909K is set to Zone 2, this button will only access the TAPE input channel as the digital coaxial channels are not available on Zone 2.

18. 7.1 input channel button - Selects the 7.1 surround sound input channel. When the DTX-9909K is set to Zone 2, the 7.1 surround sound input channel will not be available.

19. TV input channel button - Selects the TV input channel.

20. CD/COX2 input channel button - Toggles between the CD and COAX2 input channels. When the DTX-9909K is set to Zone 2, this button will only access the CD input channel as the digital coaxial channels are not available on Zone 2.

21. AUX3 input channel button - Selects the AUX3 input channel.

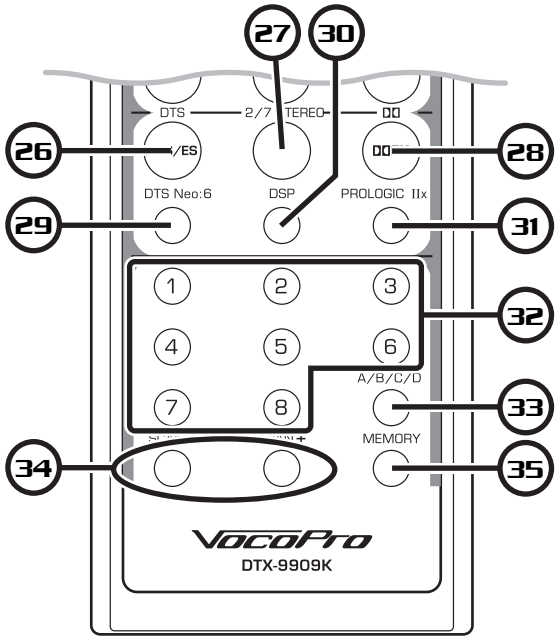
22. DVD/OPT1 input channel button - Toggles between the DVD and OPT1 input channels. When the DTX-9909K is set to Zone 2, this button will only access the DVD input channel as the digital optical channels are not available on Zone 2.

23. AUX2/COX3 input channel button - Toggles between the AUX2 and COAX3 input channels. When the DTX-9909K is set to Zone 2, this button will only access the TAPE input channel as the digital coaxial channels are not available on Zone 2.

24. TUNER AUTO - Selects the AM/FM tuner channel and toggles between AM and FM. Hold this button down for 1 second to begin Auto Tuning. The stations for each band (AM and FM) must be tuned before using.

25. AUX1/OPT2 input channel button - Toggles between the AUX1 and OPT1 input channels. When the DTX-9909K is set to Zone 2, this button will only access the AUX1 input channel as the digital optical channels are not available on Zone 2.

Descriptions and Functions
Remote Control



26. DTS, DTX ES button - Use this button to select the correct DTS or DTX ES setting. Select DTS when playing a disc that is formatted with DTS 5.1 surround sound or DTS ES when using a disc that is formatted with DTS ES 6.1 surround sound.

NOTE: In order to get true 5.1 or 6.1 surround sound, the disc must be formatted with 5.1 or 6.1 surround-sound audio. Check your disc's packaging if you are not sure whether it is formatted for 5.1 or 6.1 surround-sound.

27. 2/7 Stereo button - When a L/R stereo device is connected to the DTX-9909K, you can set it to send the audio to just the right and left speakers (2-channel) or to the surround sound speaker outputs (7-channel/5-channel).

In Music Mode, this button switches between 2-channel stereo mode and 7-channel stereo mode. In Karaoke Mode, this button switches between 2-channel stereo mode and the available 5-channel output configurations: L R C (left, right, Center), SL SR L R C (side-left, side-right, left, right, Center), SL SR C (side-left, side-right, center), L R (left, right), and C (center).

28. Dolby Digital, Dolby EX button - Toggle between Dolby Digital and Dolby Digital Surround EX mode.

Dolby Digital: for 5.1-channel surround sound with DVDs that are labeled with the Dolby Digital logo DOLBY DIGITAL.

Dolby Digital Surround EX: For 6.1-channel surround sound with DVDs that are labeled with the Dolby Digital EX logo DOLBY DIGITAL EX

29. DTS Neo:6 button - Selects DTS NEO:6 mode. Use DTS NEO:6 to create "virtual" 5.1 or 6.1 surround-sound from a 2-channel source such as a VCR, CD-player, etc.

30. DSP button - Cycles through the virtual EQ settings: CHURCH, DISCO, HALL, JAZZ, LIVE, STADIUM, THEATER and OFF. Select the one that best fits the movie or music you are listening too. NOTE: This option is not available on the 7.1 Input channel or when playing a DVD that is set to Dolby output.

31. Dolby Pro Logic IIx button - Switches between the Dolby Pro Logic IIx Movie/Music modes.

Dolby Pro Logic IIx Movie: For 5.1-channel surround sound for DVDs and videos that are labeled with the Dolby Surround Pro Logic II logo DOLBY SURROUND PRO LOGIC II Can also be used with stereo movies or TV programs and other 2-channel stereo devices.

Dolby Pro Logic IIx Music: For adding 5.1 surround sound to stereo sources such as music CDs and DVDs.

32. AM/FM Tuner preset buttons - Use these buttons to jump directly to preset stations. You can program up to 32 stations, for each band, to its own preset number.

33. A/B/C/D - Use this button to cycle through the four available radio preset banks: Bank A, Bank B, Bank C and Bank D. Each bank can store up to 8 preset radio stations for AM and 8 preset stations for FM. Use the AM/FM Tuner preset buttons on the remote control to access the preset stations.

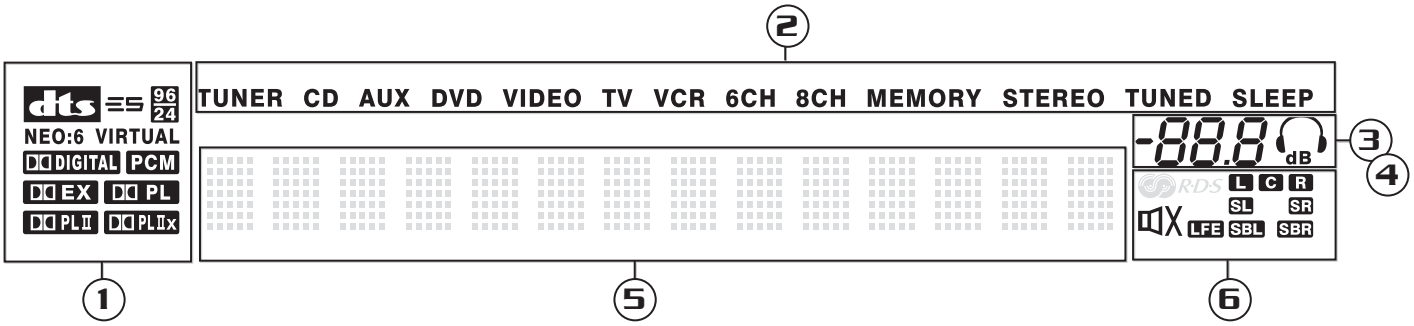
34. Scan '–' and '+' buttons - Use the buttons to scan through radio stations. Press the '–' button to scan down and the '+' button to scan up.

35. Memory button - Press this to enter Memory Mode. In memory mode you can store the current radio station to one of the preset numbers.

*About Karaoke Mode and Music Mode:

The DTX-9909K automatically enters Karaoke Mode when a microphone is connected to either of the microphone inputs on the front panel. When no microphones are connected, it will be in Music Mode.

Descriptions and Functions
Display



1. **Decoder indicators** - Indicates which decoder(s) is being used.
2. **Input source indicators** - Light up to indicate which input source is being used.
3. **Volume level indicator** -88.8dB - Indicates the volume level.
4. **Headphone indicator** - Lights up when headphones are connected to the headphone input.
5. **Multi-information display** - Shows the name of the current sound field program and other information when adjusting or changing settings.
6. **Output speaker indicator** - Shows which speaker outputs are being used.

L: Front Left channel
C: Front Center channel
R: Front Right channel
SL: Surround Left channel
SR: Surround right channel
LFE: Subwoofer channel
SBL: Surround Back Left channel
SBR: Surround Back Right channel
MUTE: - Lit when the mute function is on

Basic Functions

Turning the Power On and Off

1. Press the POWER button on the front panel to turn the power on. "Initializing……." will appear in the display panel. After three seconds of initializing, the unit will be ready to operate
2. Press the POWER button on the front panel again to turn the receiver off

Turning Standby On and Off

1. When the receiver is on, press the ⏻ button on the remote control to enter Standby mode. "POWER OFF…." will appear in the display panel.
2. Press the ⏻ button on the remote control again to exit Standby mode. "Initializing……." will appear in the display panel. After three seconds of initializing, the unit will be ready to operate

NOTE: In Standby mode, the DTX-9909K consumes a small amount of power in order to receive infrared signals from the remote control.

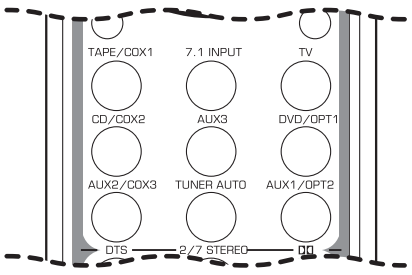
Selecting an Input Channel

Available Input channels

- DVD
- AUX1
- AUX2
- AUX3
- CD
- TV
- TUNER
- TAPE
- OPT1*
- OPT2*
- COX1*
- COX2*
- COX3*
- 7.1 CH*

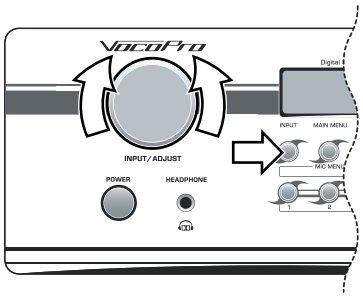
* Digital channels are not available in Zone 2. Zone 2 is reserved for analog output

Remote Control - Use the Input Select buttons to select an input channel.



Front Panel

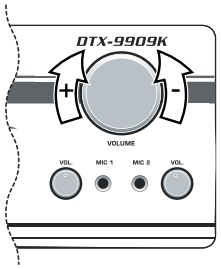
Input/Adjust control knob - Use this knob to cycle through the available input channels when the DTX-9909K is in Music Mode. The DTX-9909K is in Music Mode whenever a microphone is NOT connected to either of the microphone inputs.



Input button - Press this button to cycle through the available input channels.

Adjusting the Music Volume

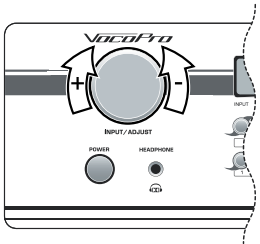
Adjust the master music volume using the VOLUME control on the front panel. Turn the VOLUME control clockwise to raise the volume and counter-clockwise to lower the volume.



Adjusting the Master Microphone Volume

When there is one or more microphones connected to the microphone input(s) on the front panel, adjust the master microphone volume using the INPUT/ADJUST control on the front panel. Turn the control clockwise to raise the volume and counter-clockwise to lower the volume.

NOTE: At least one microphone must be connected to a microphone input for INPUT/ADJUST control to adjust the microphone volume.



AM/FM Tuner Operations

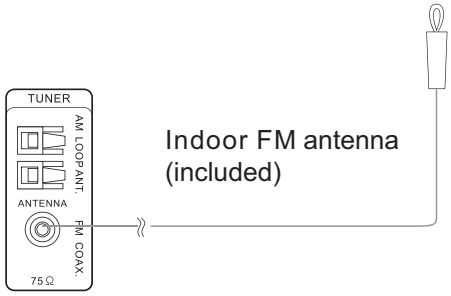
The DTX-9909K has a built-in AM and FM tuner that allows you to listen to your favorite radio stations

Connecting the Antennas

The antennas must be connected in order to receive clear reception.

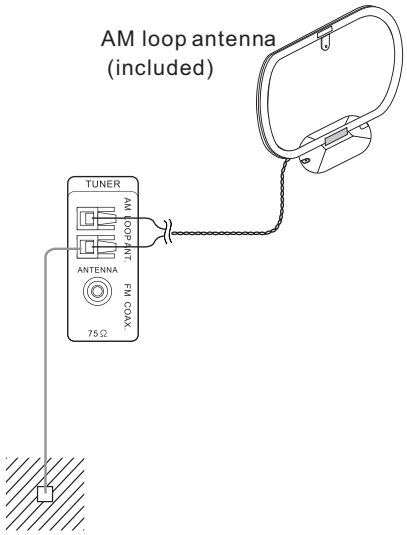
Indoor FM Antenna

1. Connect the FM loop antenna, with the coaxial end, to the FM COAX. jack on the rear panel.
2. If necessary, hang the other end of the antenna so that it is up higher and out of the way of any hindrance.



AM Loop Antenna

1. Uncoil the antenna wire
2. Press down on the antenna tab to open the terminal
3. Insert the exposed wires
4. For best reception, rotate the antenna horizontally



Operating the Auto Tuner

1. Press the TUNER AUTO button on the remote control or INPUT button on the front panel to select TUNER as the input source
2. Press the TUNER AUTO button on the remote control to select AM or FM

There are two ways to tune: automatic and manual. Automatic tuning is effective when station signals are strong and there is no interference. If the signal from the station that you want to select is weak, you must tune it manually.

Manual Tuning

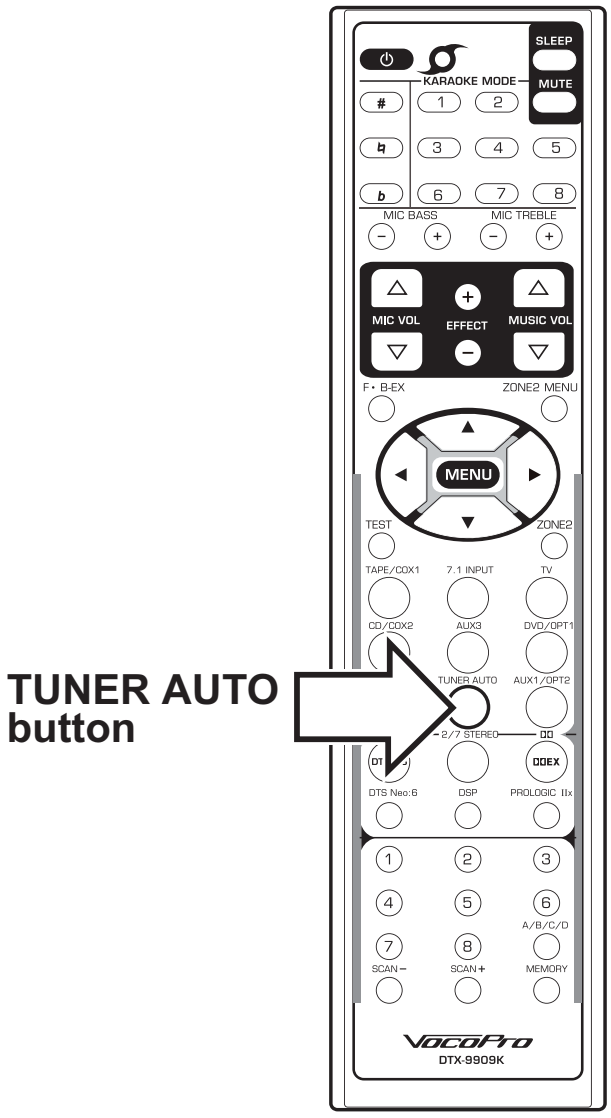
1. Press the SCAN + or SCAN – buttons on the remote control to find your desired station.
2. You can also press and hold the SCAN + or SCAN – buttons for about one second to use the automatic search function. Automatic search will automatically scan up or down until it finds a clear station.

AM/FM Tuner Operations cont.

Preset Stations

Automatic Preset Storing

1. Make sure TUNER is selected as the input source
2. Press the TUNER AUTO button on the remote control to select AM or FM
3. Press and hold the TUNER AUTO button on the remote control for 3 seconds to begin automatic tuning
4. Radio frequencies will be scanned and stations stored automatically as A1, A2, A3, A4, A5, etc. When all available radio stations are stored or if all 32 memory locations are full, the auto preset will stop



NOTE: Weak signals can affect the Automatic Preset Storing function. Adjust the antenna for best reception and a more efficient search.

Manually Presetting Stations

1. Press the TUNER AUTO button on the remote control to select AM or FM.
2. Select a radio station using the SCAN + or SCAN – buttons on the remote control.
3. Press the MEMORY button on the remote control. The MEMORY indicator on the display screen will begin blinking.
4. Press the A/B/C/D button on the remote control to cycle through the preset banks (A to D) and select one.
5. Press one of the preset station number buttons (1 – 8) on the remote control to select a preset station number.
6. Repeat steps 2 to 5 to store other stations.

Retrieving Preset Stations

1. Press the TUNER AUTO button on the remote control to select AM or FM.
2. Press the A/B/C/D button on the remote control to select your desired preset bank.
3. Press one of the preset station number buttons (1 – 8) on the remote control to select your desired preset station number.

Speaker Settings Menu

Speaker Settings Menu

In order to adjust the speaker settings, the DTX-9909K must be in Music Mode. The DTX-9909K is in Music Mode whenever there are no microphone cables connected to either of the microphone inputs.

Below is a list of the available speakers settings and their available options:

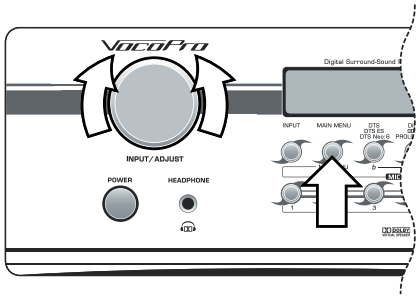
Accessing the Speaker Settings Menu

To access the speaker settings, press the Main Menu button on the front panel or the Menu button on the remote control.

Using the Speaker Settings Menu

Front Panel

1. Press the Main Menu button on the front panel to cycle through all of the speaker settings.
2. Use the Input/Adjust control to change the parameters for each setting



Remote Control

1. Press the Menu button on the remote control to access the Speaker Settings menu
2. Use the ▲ and ▼ buttons to cycle through all of the speaker settings
3. Use the ◀ and ▶ buttons to change the parameters for each setting

Available Speaker Settings:

Below is a list of the speaker settings available in the Speaker Settings Menu

- **M Speaker (Main Speakers)**

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to select the parameter.

Choices: Large, Small

Large - If your main speakers have a high ability for bass reproduction. In this position, full-range signals present in the main channels are output from the main speakers.

Small - If your main speakers do not have a high ability for bass reproduction. However, if your system does not include a subwoofer, do not select this position. In this position, low bass signals are output from the subwoofer output (100Hz).

- **C Speaker (Center Speaker)**

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to select the parameter.

Choices: Large, Small, and None

Large - If you have a large surround center speaker. The entire range of the surround center signal is directed to the surround center speaker.

Small - If your center speaker does not have a high ability for bass reproduction. In this position, low bass signal (100 Hz) in the center channel is output from the sub-woofer speaker, or from the left and right main speaker if the subwoofer setting is set to the "N (none)" position.

None - Select this position if your system does not include the center speaker. The center-channel will be output from the left and right speakers instead.

Speaker Settings Menu cont.

• S Speaker (Surround Left and Right Speakers)
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to select the parameter.

Choices: Large, Small, and None

Large - If you have large surround left and right speakers.

Small - Select this position if your surround left and right speakers do not have a high ability for bass reproduction. In this position, low bass signals (100 Hz) in the surround left and right channels are output from the subwoofer speaker, or from the left and right main speaker if the subwoofer setting is set to the "N (none)" position.

None - Select this position if your system does not include the surround left and right speakers. The surround left and right channels will be output from the front left and right speakers instead.

• B Speaker (Back Surround Speakers)
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to select the parameter.

Choices: O/O, S/O, L/O, S/S, and L/L

O/O - When there are no back speakers
S/O - When there is only one small back speaker
L/O - When there is only one large back speaker
S/S - When there are two small back speakers
L/L - When there are two large back speakers

• SW Speaker (Subwoofer)
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to select the parameter.

Choices: Y (yes), N (none)

Y (Yes) - If your system includes a subwoofer.

N (None) - If your system does not include a subwoofer

Adjusting Speaker Output Levels

• FL VOL (Front Left Channel level)
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the level.

Level range: -10dB to +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the level.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the level.

• FR VOL (Front Right Channel level)
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the level.

Level range: -10dB to +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the level.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the level.

• LB VOL (Left Back Surround Channel level)
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the level.

Level range: -10dB to +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the level.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the level.

• RB VOL (Right Back Surround Channel level)
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the level.

Level range: -10dB to +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the level.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the level.

Speaker Settings Menu cont.

• SW VOL (Subwoofer volume)
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the level.

Level range: -10dB to +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the level.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the level.

Speaker Tone Settings

• TREBLE
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the tone.

Tone range: -10dB to +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the treble.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the treble.

• BASS
Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the tone.

Tone range: -10dB to +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the bass.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the bass.

• C DELAY (Center delay)
It may be necessary to adjust the delay for the center channel to make up for the distance between the speakers.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the delay time.

Delay range: 0 ms - 5 ms

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the delay time.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to decrease the delay time.

• S DELAY (Surround speakers delay)
It may be necessary to adjust the delay for the surround speaker channels to make up for the distance between the speakers.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the delay time.

Delay range: 0 ms - 30 ms

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the delay time.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to decrease the delay time.

• B DELAY (Back Surround speakers delay)
It may be necessary to adjust the delay for the back surround speaker channels to make up for the distance between the speakers.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the delay time.

Delay range: 0 ms - 35 ms

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the delay time.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to decrease the delay time.

• Dynamic

Choices: MAX (maximum), STA (standard, and MIN (minimum)

Select the Dynamic setting that sounds best for you

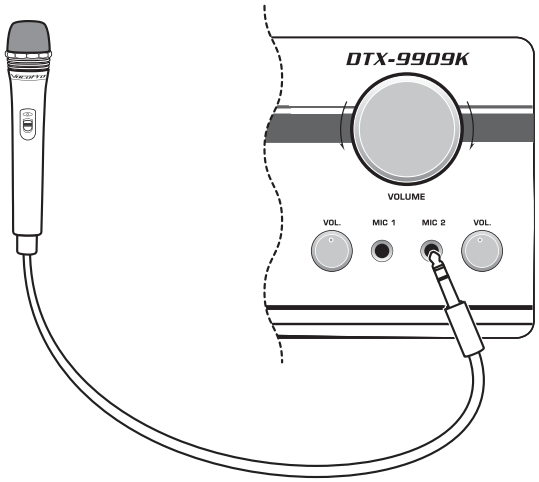
Maximum: High Signal Compression

Standard: Normal Signal Compression

Minimum: Minimum Signal Compression

Karaoke Mode

The DTX-9909K will be in Karaoke Mode whenever there is at least one microphone connected to the microphone inputs.



Turning Karaoke Mode On

1. Insert a microphone cable into one of the microphone inputs on the front panel
2. The display screen will say KARAOKE ON, indicating that Karaoke Mode is on

Turning Karaoke Mode Off

1. Unplug all of the microphone cables to turn Karaoke Mode off.
2. The display screen will say KARAOKE OFF, indicating that Karaoke Mode is off

Karaoke Mode Settings Menu

The Karaoke Mode Settings Menu allows you adjust the following settings:

- Microphone DSP Effect Volume
- Microphone 1 & 2 Volume limits
- Microphone Bass tone level
- Microphone Treble tone level
- Microphone Delay time
- Microphone Repeat level
- Microphone Reverb Time
- Microphone Reverb Level
- Microphone Feedback Time
- OK
- Feedback Reducer setting

Accessing the Karaoke Mode Settings Menu

1. Press the Main Menu button on the front panel or the Menu button on the remote control while the DTX-9909K is in Karaoke Mode
2. The settings will appear on the DTX-9909K's display screen

Navigating through the Karaoke Mode Settings Menu

1. Press the Main Menu button on the front panel or the ▲ and ▼ buttons on the remote control to cycle through the available Karaoke Mode Settings
2. The settings will appear on the DTX-9909K's display screen
3. Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the parameters for each setting

Available Karaoke Mode Settings

• EFF VOLUME (Microphone DSP effect volume)

This setting determines how much DSP effect is present in the microphone signal.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the volume for the DSP microphone effect.

Volume Range: 0 – 80

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the volume.

2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the volume.

Karaoke Mode cont.

• MIC1 VOL (Microphone channel 1 volume)

Use this setting to set the maximum volume level for microphone channel 1. NOTE: If this is set too low, the microphone will not be loud enough.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the maximum volume for microphone channel 1.

Volume Range: 0 – 80

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the volume.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the volume.

• MIC2 VOL (Microphone channel 2 volume)

Use this setting to set the maximum volume level for microphone channel 2. NOTE: If this is set too low, the microphone will not be loud enough.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the maximum volume for microphone channel 2.

Volume Range: 0 – 80

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the volume.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the volume.

• MIC BASS (Microphone bass tone level)

Use this setting to adjust the amount of bass tone that is present in the microphone channels 1 and 2.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the microphone bass tone level.

Bass Tone Range: -10dB – +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the bass.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control decrease the bass.

• MIC TREB (Microphone Treble tone level)

Use this setting to adjust the amount of treble that is present in the microphone channels 1 and 2.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the microphone treble level.

Treble Tone Range: -10dB – +10dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the treble.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control decrease the treble.

• MIC DELAY (Microphone Echo/Delay Effect)

Use this setting to set the delay time for the DSP microphone echo effect.
NOTE: The DSP effect volume must be set loud enough in order to hear the effect

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the delay time.

Delay Time Range: 0ms – 250ms

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the delay time.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control decrease the delay time.

• REPEAT (Microphone Echo/Repeat Effect)

Use this setting to set the amount of repeat for the DSP microphone echo effect.
NOTE: The DSP effect volume must be set loud enough in order to hear the effect

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust repeat level.

Repeat Range: 0dB – 80dB

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the repeat level.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control decrease the repeat level.

Karaoke Mode cont.

• RVB TIME (Microphone DSP reverb time)

Use this setting to set the reverb time for the DSP microphone reverb effect.
NOTE: The DSP effect volume must be set loud enough in order to hear the effect

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the reverb time.

Reverb Time Range: 0 – 80

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the reverb time.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control decrease the reverb time.

• RVB VOLUME (Microphone DSP reverb volume)

This setting determines how much DSP reverb is present in the microphone signal.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the volume for the DSP reverb effect.

Reverb Volume Range: 0 – 80

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to raise the reverb volume.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control to lower the reverb volume.

• FB TIME (Reverb feedback time)

Use this setting to set the reverb feedback time for the DSP microphone reverb effect.
NOTE: The DSP effect volume must be set loud enough in order to hear the effect

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to adjust the reverb feedback time.

Feedback Time Range: 0ms – 80ms

1. Turn the Input/Adjust knob on the front panel clockwise or press the ▲ button on the remote control to increase the reverb feedback time.
2. Turn the Input/Adjust knob on the front panel counterclockwise or press the ▼ button on the remote control decrease the reverb feedback time.

• OK (Karaoke output mode)

Use this setting to select which speakers will be used for microphone output.

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to cycle through the available output modes.

Choices: L R, C, L R C, SL SR L R C, and SL SR C

L R - Microphone output will be in the Front Left and Front Right speakers

C - Microphone output will be in the Center speaker

L R C - Microphone output will be in the Front Left, Front Right, and Center speakers

SL SR L R C - Microphone output will be in the Surround Left, Surround Right, Front Left, Front Right, and Center speakers

SL SR C - Microphone output will be in the Surround Left, Surround Right, and Center speakers

• FB EX (Feedback reducer)

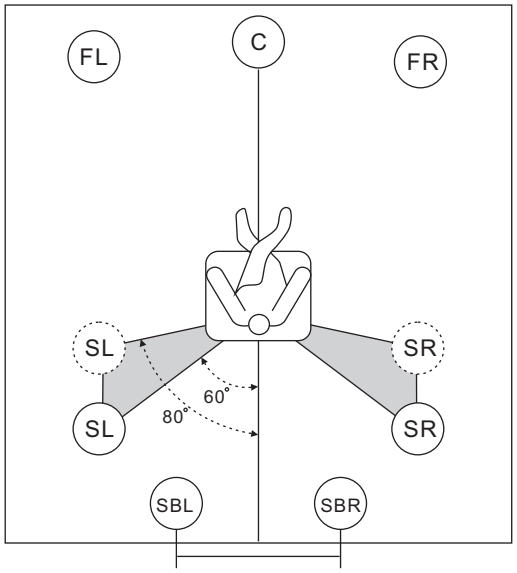
Use this select which Feedback Reducer setting to use

Use the Input/Adjust knob on the front panel or the ◀ and ▶ buttons on the remote control to cycle through the available Feedback Reducer settings: 1, 2, 3, and OFF

Reference

Surround Sound Setup

The speaker layout below shows the standard ITU-R speaker setting. You can use it to enjoy CINEMADSP, multi-channel audio sources and THX.



Front Speakers (FR and FL)

The front speakers are used for the main source sound plus effect sounds. Place these speakers an equal distance from the ideal listening position. The distance of each speaker from each side of the video monitor should be the same.

Center Speaker (C)

The center speaker plays the center channel sounds (dialogue, vocals, etc.). Align the front face of the center speaker with the front face of your video monitor. Place the speaker directly between the front speakers and as close to the TV/monitor as possible.

NOTE: If for some reason it is impractical to use a center speaker, it can be left out but for best results it is recommended that you use the full system.

Surround Speakers (SR and SL)

The surround speakers are used for effect and surround sounds. Place these speakers behind the listening position, facing slightly inwards, approximately 5.9' (1.8 m) above the floor.

Surround Back Speakers (SBR and SBL)

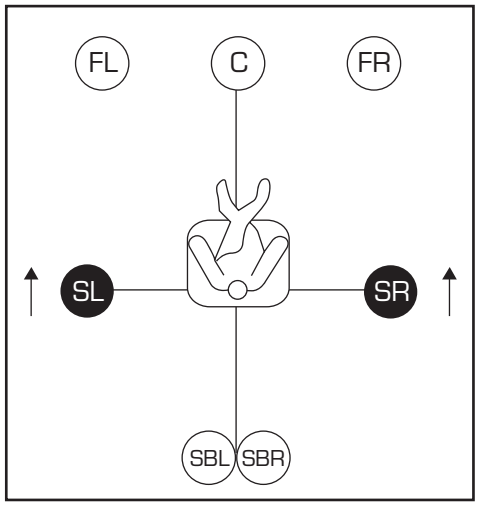
The Surround Back speakers supplement the surround speakers and provide for more realistic front-to-back transitions. Place these speakers directly behind the listening position and at approximately 5.9" (1.8) above the floor, the same height as the surround speakers. Ideally these should be positioned with the same distance between each other as is between the front speakers or no less than 11.8" (30 cm).

Subwoofer

A subwoofer is great for not only reinforcing bass frequencies from any or all channels but also for high fidelity reproduction of the LFE (low-frequency effect) channel included in Dolby Digital and DTS software. It is best to position the subwoofer near the front speakers and turn it slightly towards the center of the room to reduce wall reflections.

Di-Pole Speaker Layout

Either Di-pole or direct radiating speaker types can be used for THX surround sound. If you choose di-pole speakers, please place the surround and surround back speakers according to the speaker layout below.



:Di-pole speaker

:Direction of the di-pole speaker phase

Reference cont.

Playback Mode Display Abbrevations and Full Working Names

NO	Display Abbreviation	Full working name
1	DTS DIG DSND	DTS Digital Surround
2	DTS ES MTX	DTS ES MATRIX
3	DTS ES DISC	DTS ES DISCRETE
4	Neo. 6 MUS	Neo: 6 MUSIC
5	Neo. 6 CIN	Neo. 6 CINEMA
6	DOLBY D	DOLBY DIGITAL
7	DOLBY D EX	DOLBY DIGITAL SURROUND EX
8	PRO IIx MUSIC	DOLBY PROLOGIC IIx MUSIC
9	PRO IIx MOVIE	DOLBY PROLOGIC IIx MOVIE
10	D - D STEREO	DOLBY DIGITAL 2-CH STEREO
11	D - D 7 STEREO	DOLBY DIGITAL 7-CH STEREO

Listening Modes

Depending in the type of disc you are using, certain listening modes will be available. Below is a complete list of the DTX-9909K's listening modes

NOTE: Not all listening modes will be available for every type of disc

- BYPASS (2-CH STEREO)
- 7-CH STEREO
- DOLBY DIGITAL
- DOLBY DIGITAL EX
- DOLBY PROLOGIC II MOVIE
- DOLBY PROLOGIC II MUSIC
- DTS
- DTS ES
- DTS 96/24
- Neo:6 CINEMA
- Neo:6 MUSIC

Available listening modes

Below are lists of the available listening modes for certain discs.

When playing **PCM-encoded** music CDs or **analog signals**, including the AM/FM tuner:

- BYPASS (2-CH STEREO)
- 7-CH STEREO
- DOLBY PROLOGIC II MOVIE
- DOLBY PROLOGIC II MUSIC
- Neo:6 CINEMA
- Neo:6 MUSIC

When playing **DOLBY DIGITAL or DOLBY DIGITAL SURROUND EX-encoded** DVD/CDs:

- DOLBY STEREO (2-CH STEREO)
- 7-CH STEREO
- DOLBY DIGITAL
- DOLBY DIGITAL EX

When playing **DTS or DTS ES-encoded** DVD/CDs:

- DTS STEREO (2-CH STEREO)
- 7-CH STEREO
- DTS
- DTS ES
- DTS 96/24

When playing **DTS 96KHz/24bit-encoded** DVD/CDs:
NOTE: The DTX-9909K will automatically switch to DTS 96/24 listening mode

- DTS STEREO (2-CH STEREO)
- 7-CH STEREO
- DTS 96/24

Troubleshooting

Problem	Cause	Remedy
Dolby Digital or DTS sources cannot be played. (Dolby Digital or DTS indicator on the front panel display does not light up).	• The connected component is not set to output Dolby Digital or DTS digital signals	• Set your player to the correct setting following it's operating instructions
	• The incorrect input channel has been selected	• Select the correct input channel using the input select buttons
A "humming" sound can be heard	• Cable(s) not connected correctly	• Firmly connect all audio cables. If the problem persists, the cable(s) may be defective
The sound effect cannot be recorded	• It is not possible to record the sound effect with a recording device	
A source cannot be recorded by a recording device	• The recording device is not connected to the PRE OUT (REC) jack	• Connect the recording device to the PRE OUT (REC) jack
This unit does not operate properly	• The internal microcomputer has been frozen by an external electric shock (such as lightening or excessive static electricity) or by a power supply with low voltage	• Disconnect the AV power cord from the outlet and then plug it in after approximately 30 seconds
		• Reset the DTX-9909K (instructions at the end of this troubleshooting section)
There is noise interference from digital or high-frequency equipment, or this unit	• The DTX-9909K is too close to the digital or high-frequency equipment	• Move the DTX-9909K away from such equipment
The picture is disturbed	• The video source uses scrambled or encoded signals to prevent dubbing	
There is no picture on the TV/ video monitor	• The video signal is not connected to the correct source	• Change to a correct source
	• The video cable is bad	• Replace with a new cable
The power suddenly turned off and there is no sound or display	• The internal temperature is too high and the overheat-protection cicuitry has been activated	• Wait about 1 hour for the DTX-9909K to cool off and then turn it back on
FM stereo reception is noisy	• FM stereo broadcasts may cause this problem when the transmitter is too far away or the antenna input is poor	• Check the antenna connections. Try using a high-quality directional FM antenna (not included)
		• Use the manual tuning method
There is distortion and a clear reception cannot be found even with a high-quality FM antenna	• There is multipath interference	• Adjust the antenna position to eliminate multipath interference
The desired station cannot be tuned in with automatic tuning	• The signal is too weak	• Use a high-quality directional FM antenna (not included) or use the manual tuning method

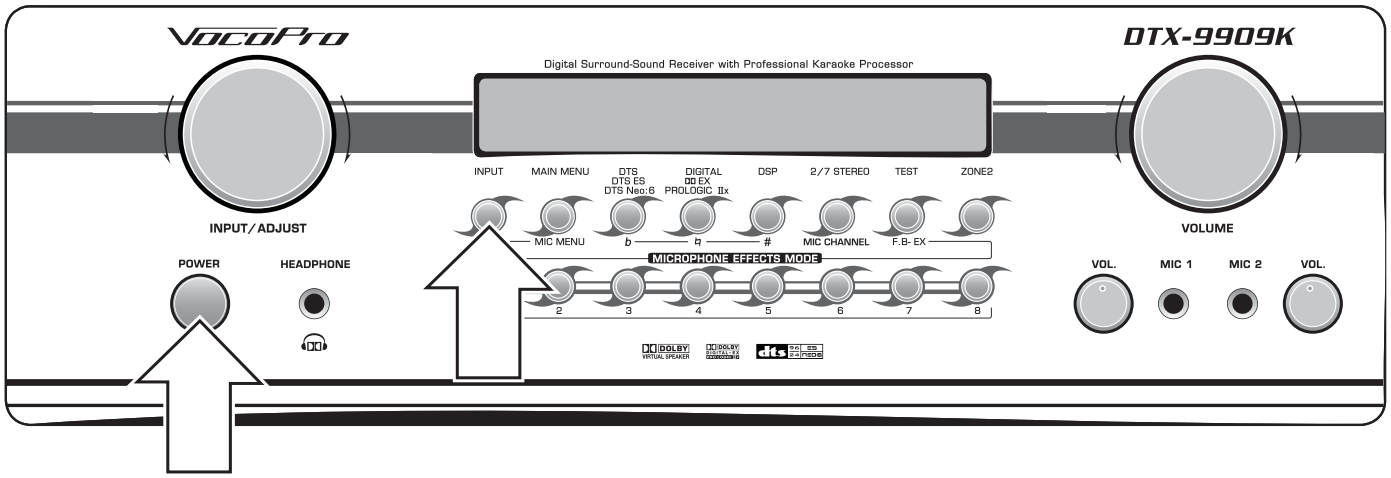
Troubleshooting cont.

Problem	Cause	Remedy
Previously preset stations can no longer be tuned in.	• The DTX-9909K has been disconnected for a long period of time	• Preset the stations again
The desired AM station cannot be tuned in with the automatic tuning method	• The signal is weak of the antenna connection is loose	• Tighten the AM loop antenna connection and reposition it for better reception
		• Use the manual tuning method
There are continuous crackling and hissing noises	• These noises are caused by lightning, fluorescent lamps, motors, thermostats and other electric equipment	• Use an outdoor antenna and a ground wire
There are buzzing and whining noises	• A TV set is being used nearby	• Move the DTX-9909K away from the TV
The remote control does not function properly	• Wrong distance or angle	• The remote control will function within a maximum range of 20' (6m) and at no more than a 30° angle from the DTX-9909K's front panel
	• Direct sunlight or lighting (from an inverter type of fluorescent lamp, etc.) is striking the remote control sensor on the DTX-9909K	• Reposition the DTX-9909K
	• The batteries are weak	• Replace all of the batteries
	• No batteries are installed or they are installed in the wrong polar direction	• Install the batteries into the remote control. Be sure to match the + and – ends of each battery to the symbols shown in the remote control's battery compartment

Resetting the DTX-9909K

Resetting the Factory Presets

To reset all of the DTX-9909K's parameters to the original factory settings, follow the instructions below. This procedure completely resets ALL parameters and settings.



1. Be sure the power is OFF
2. Press and hold the INPUT button on the front panel, then press the POWER button on the front panel
3. Hold down the INPUT button until "RESET……" appears on the display screen

Index

2/5 Stereo 24
2/7 Stereo 24
2/7 Stereo / 2/5 Stereo button 24
2/7 Stereo button 32
7.1 input channel button 31
8Ω & 4Ω Impedence Selector switch 29

A

A/B/C/D 32
Accessing the Speaker Settings Menu 37
AC input 27
Adjusting the Master Microphone Volume 34
Adjusting the Music Volume 34
AM/FM Tuner preset buttons 32
AM Loop Antenna 35
AM Loop Antenna input 26
Antennas 35
Automatic Preset Storing 36
AUX1/OPT2 input channel button 31
AUX1 Component Video (Y, Pb/Cb, Pr/Cr) input 27
AUX1 L/R Stereo RCA inputs 28
AUX1 RCA video input 26
AUX1 S-Video input 26
AUX2/COX3 input channel button 31
AUX2 Component Video (Y, Pb/Cb, Pr/Cr) input 27
AUX2 L/R Stereo RCA inputs 28
AUX2 RCA video input 26
AUX2 S-Video input 26
AUX3 input channel button 31
AUX3 L/R Stereo RCA inputs 28
AUX3 RCA video input 26
AUX3 S-Video input 27
Available Input channels 34
Available listening modes 44

B

BASS 39
Battery Replacement 11
B DELAY 39
B Speaker 38

C

CD/COX2 input channel button 31
CD L/R Stereo RCA inputs 28
Center (C) speaker output 27
Center Speaker (C) 43
CENTER speaker terminals 13
COAX1 Digital Coaxial Audio input 29
COAX2 Digital Coaxial Audio input 29
COAX3 Digital Coaxial Audio input 29
Component Video (Y, Pb/Cb, Pr/Cr) 18
Component Video (Y, Pb/Cb, Pr/Cr) output jack 27
Connecting a DVD Player 15
Connecting Speakers 12
Connecting the Antennas 35
Connecting to a TV / Video Monitor 17
Connecting to a TV / Video Monitor using the S-Video Output 17
C DELAY 39
C Speaker 37

D

Digital Key Control 23, 30
Display 33
Display Abbrevations 44
Display screen 23
Dolby 23
DOLBY D 44
Dolby Digital 23
Dolby Digital, Dolby EX button 32
Dolby Digital Surround EX 23
DOLBY D EX 44
Dolby Pro Logic IIx button 32
Dolby Pro Logic IIx Movie 23
Dolby Pro Logic IIx Music 23
DSP 24
DSP button 32
DTS 23
DTS, DTX ES, and DTS NEO:6 / b (Digital Key Control) button 23
DTS, DTX ES button 32
DTS 96KHz/24bit-encoded DVD/CDs 44
DTS ES DISC 44
DTS NEO:6 23
DTS Neo:6 32
DTS Neo:6 button 32
DTX ES 23
DVD/OPT1 input channel button 31
DVD 7.1 Channel Surround Sound input 29
DVD Component Video (Y, Pb/Cb, Pr/Cr) input 27
DVD L/R Stereo RCA inputs 28
DVD RCA video input 26
DVD S-Video input 26
Dynamic 39

E

Effect 30
Effect + and – 30
EFF VOLUME 40

F

F.B-EX (feedback eliminator) button 31
Factory Presets 47
FB EX 42
FB TIME 42
FL VOL 38
FM Antenna 35
FM Coax antenna input 26
Front Left and Front Right speaker outputs 27
Front Speakers (FR and FL) 43
FRONT speaker terminals 13
FR VOL 38
Full Working Names 44

H

Headphone input 25

I

Impedence Selector 29
Input/Adjust 23
Input button 23
Input Channel 34
Installing Batteries 11

K

Karaoke Mode 41, 42
Karaoke Mode Off 40
Karaoke Mode On 40
Karaoke Mode Settings 40
Karaoke Mode Settings Menu 40

L

LB VOL 38
Listening Modes 44

M

Main Menu 23
Manually Presetting Stations 36
Manual Tuning 35
Master Volume control 25
Matching up the Correct Video Input 20, 21
Memory button 32
Menu button 31
MIC1 VOL 41
MIC2 VOL 41
Microphone Effects Mode buttons 25, 30
Microphone input 25
Microphone volume controls 25
MIC BASS 41
Mic Bass 30
MIC DELAY 41
MIC TREB 41
Mic Treble 30
Mic Volume buttons 30
Music Volume buttons 30
Mute button 30
M Speaker 37

Index cont.

N

Navigating through the Karaoke Mode Settings Menu 40
Neo. 6 CIN 44
Neo. 6 CINEMA 44
Neo. 6 MUS 44

O

OK 42
OPT1 Digital Optical Audio input 29
OPT2 Digital Optical Audio input 29

P

Playback Mode Display Abbrevations and Full Working Names 44
Playing DOLBY DIGITAL or DOLBY DIGITAL SURROUND EX-encoded DVD/CDs 44
Playing DTS or DTS ES-encoded DVD/CDs 44
Playing PCM-encoded music CDs 44
Playing PCM-encoded music CDs or analag signals 44
Power 34
Power (main power) button 25
Power Cable 11
Power On and Off 34
Preparing the Speaker Cable 12
Pro Logic IIx button 32

R

RB VOL 38
RCA Video output 26
Record Out L/R RCA jacks 28
REC OUT 14
Remote Control 11
REPEAT 41
Resetting the Factory Presets 46
RVB TIME 42
RVB VOLUME 42

S

S-Video output jack 27
Scan '–' and '+' 32
Selecting an Input Channel 34
Selecting the Correct input channel 15
Selecting the correct input channel 20, 21
Sleep button 30
Speaker Output Levels 38
Speaker Settings Menu 37
Speaker Tone Settings 39
Standby 34
Standby button 30
Standby On and Off 34
Subwoofer 43
Subwoofer output jack 27
Surround Back Left and Surround Back Right speaker outputs 27
Surround Back Speakers (SBR and SBL) 43
SURROUND BACK speaker terminals 13
Surround Speakers (SR and SL) 43
SW Speaker 38
SW VOL 39
SW VOL (Subwoofer volume) 38
S DELAY 39
S Speaker 38

T

Tape/COX1 input button 31
TAPE L/R Stereo RCA inputs 28
TEST / F.B EX button 24
Test button 31
TREBLE 39
TUNER AUTO 31
Turning Karaoke Mode Off 40
Turning Karaoke Mode On 40
TV input channel button 31
TV L/R Stereo RCA inputs 28
TV RCA video input 26
TV S-Video input 27

Z

Zone2 Button 31
Zone2 button 24
ZONE2 PRE 14
ZONE2 Pre Out 29
Zone 2 Menu 31

NOTES

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